

Publicaciones científicas del periodo julio - diciembre 2021

GRUPO I

1. Delgadillo-Velázquez, J.A., Nambo-Venegas, R., Patiño, N., Meraz-Cruz N., Razo-Azamar M., Guevara-Cruz M., Fonseca M., Pale-Montero L.E., Ibarra-González I., Vela-Amieva M., **Vadillo-Ortega, F., Palacios-González, B.** Metabolic flexibility during normal pregnancy allows appropriate adaptation during gestation independently of BMI. *Clin Nutr ESPEN*. 2021 Aug; 44:254-262. doi: 10.1016/j.clnesp.2021.06.007. Epub 2021 Jun 19.
2. Polfus LM, Darst BF, Highland H, Sheng X, Ng MCY, Below JE, Petty L, Bien S, Sim X, Wang W, Fontanillas P, Patel Y; 23andMe Research Team; DIAMANTE Hispanic/Latino Consortium; MEta-analysis of type 2 Diabetes in African Americans Consortium, Preuss M, Schurmann C, Du Z, Lu Y, Rhie SK, Mercader JM, Tusie-Luna T, González-Villalpando C, **Orozco L**, Spracklen CN, Cade BE, Jensen RA, Sun M, Joo YY, An P, Yanek LR, Bielak LF, Tajuddin S, Nicolas A, Chen G, Raffield L, Guo X, Chen WM, Nadkarni GN, Graff M, Tao R, Pankow JS, Daviglus M, Qi Q, Boerwinkle EA, Liu S, Phillips LS, Peters U, Carlson C, Wikens LR, Marchand LL, North KE, Buyske S, Kooperberg C, Loos RJF, Stram DO, Haiman CA. Genetic discovery and risk characterization in type 2 diabetes across diverse populations. *HGG Adv*. 2021 Apr 8;2(2):100029. doi: 10.1016/j.xhgg.2021.100029. Epub 2021 Mar 9.
3. Martínez-Magaña JJ, **Genis-Mendoza AD**, Santana D, Tóvillla-Zárata CA, Lanzagorta N, **Nicolini H**. [The presence of a psychiatric diagnosis could alter the epigenetic clock in monozygotic twins] *Rev Esp Geriatr Gerontol*. 2021 Nov-Dec; 56(6):361-363. Spanish. doi: 10.1016/j.regg.2021.07.001. Epub 2021 Sep 25.
4. Camacho-Servín BA, **Hernández-Lemus E**, Martínez-García M. Morbimortalidad en mujeres y hombres trabajadores de la salud infectados con COVID-19 en la Ciudad de México: un estudio transversal descriptivo. *Rev CONAMED*. 2021;26(3):116-125. doi:10.35366/101676.
5. **De Anda-Jáuregui G** and **Hernández-Lemus E**. "Identification of Potential Adverse Drug Reactions using Random Walk on Network Models," 2021 Mexican International Conference on Computer Science (ENC), Aug.2021, Publisher: IEEE pp. 1-6, doi: 10.1109/ENC53357.2021.9534826.
6. Meneses-Medina MI, Hernandez-Felix JH, Anaya-Sánchez LG, Valenzuela-Vidales AK, Rosas-Camargo V, Martos-Armendariz EO, Torres-Valdiviezo LI, **Cedro-Tanda A**, Noguez-Ramos A, **Herrera-Montalvo LA, Hidalgo-Miranda A**, Valdez-Echeverria RD, Galindo-Fraga A, Huitzil-Meléndez FD. SARS-CoV-2 Infection Rate in Patients With Cancer and Health Care Workers in a Chemoradiotherapy Unit During the Pandemic: A Prospective Cohort in Mexico. *JCO Glob Oncol*. 2021 Sep;7:1639-1646. doi: 10.1200/GO.21.00207.

Grupo II

7. Ocadiz-Delgado R, Cruz-Colin JL, Alvarez-Ríos E, Torres-Carrillo A, Hernández-Mendoza K, Conde-Pérezprina JC, Domínguez-Gómez GI, García-Villa E, Lambert PF, Gariglio P. Expression of miR-34a and miR-15b during the progression of cervical cancer in a murine model expressing the HPV16

E7 oncoprotein. *J Physiol Biochem.* 2021 Nov;77(4):547-555.doi: 10.1007/s13105-021-00818-9. Epub 2021 May 3. (F.I. 2.952)

8. Rodríguez-Castañón JM, McNaughton A, Cárdenas-Ochoa A, Fuentes-Romero LL, Viveros-Rogel M, Vergara-Mendoza M, Tello-Mercado A, Leal-Gutiérrez G, Romero-Carvajal JJ, Cázares-Lara J, Camiro-Zúñiga A, Jaramillo-Jante R, Antuna-Puente B, Galindo-Fraga A, Soto-Ramirez L, Sierra-Madero J, Perez-Patrigeon S. Exceptional T CD4+ recovery post-ART is linked to a lower HIV reservoir with a specific immune differentiation pattern. *AIDS Res Hum Retroviruses.* 2021 Mar 28. doi: 10.1089/AID.2020.0270. Online ahead of print. (F.I. 1.823)
9. **Genis-Mendoza AD**, Elizalde-Martínez C, Martínez-Magaña JJ, Cabrera-Mendoza B, Morales-Guadarrama A, Sacristán E, Beltrán-Villalobos I, Tovilla-Zarate CA, **Nicolini H**. Longitudinal magnetic resonance evaluation of the schizophrenia model of neonatal lesion in the ventral hippocampus. *Cir Cir.* 2021;89(6):785-791. English. doi: 10.24875/CIRU.20001027. (F.I. 0.264)

Grupo III

10. Baca-López K, **Fresno C**, **Espinal-Enríquez J**, Martínez-García M, Camacho-López MA, Flores-Merino MV, **Hernández-Lemus E**. Spatio-Temporal Representativeness of Air Quality Monitoring Stations in Mexico City: Implications for Public Health. *Front Public Health.* 2021 Jan 12;8:536174. doi: 10.3389/fpubh.2020.536174. (F.I. 2.483)
11. Baca-López K, **Fresno C**, **Espinal-Enríquez J**, Flores-Merino MV, Camacho-López MA, **Hernández-Lemus E**. Metropolitan age-specific mortality trends at borough and neighborhood level: The case of Mexico City. *PLoS One.* 2021 Jan 19;16(1):e0244384. doi: 10.1371/journal.pone.0244384. (F.I. 2.740)
12. Castañeda-Priego R, Figueroa-Gerstenmaier S, **Hernández-Lemus E** and Kraemer AS. (2021) Editorial: 50 years of Statistical Physics in Mexico: Development, State of the Art and Perspectives. *Front. Phys.* 9:727582. doi: 10.3389/fphy.2021.727582 (F.I. 2.638)
13. Domínguez-López, A., Magaña-Guerrero, F.S., Buentello-Volante, B., Bautista-Hernández I.A., **Reyes-Grajeda J.P.**, Bautista-De Lucio, V.M., Garfias, Y. Amniotic membrane conditioned medium (AMCM) reduces inflammatory response on human limbal myofibroblast, and the potential role of lumican. *Mol Vis.* 2021 Jun 15;27:370-383. eCollection 2021. (F.I. 2.202)
14. González-Castro, T.B., Tovilla-Zárate, C.A., López-Narváez, M.L., **Genis-Mendoza, A.D.**, Juárez-Rojop, I.E. Interleukin-6 Levels in Serum, Plasma, and Cerebral Spinal Fluid in Individuals with Suicide Behavior: Systematic Review and Meta-Analysis with Meta-Regression. *J Interferon Cytokine Res.* 2021 Jul;41(7):258-267. doi: 10.1089/jir.2020.0265. (F.I. 2.032)
15. Hernandez-Lopez, R., Hermosillo, L., Leon-Maldonado, L., **Velázquez-Cruz R.**, Torres-Ibarra L., Lazcano-Ponce E., Lorincz A., Wheeler C.M., Xavier Bosch F., Cuzick J., Rivera-Paredes B., Nedjai, B., Salmeron, J. Performance

- of an affordable urine self-sampling method for human papillomavirus detection in Mexican women. *PLoS One*. 2021 Jul 21;16(7):e0254946. doi: 10.1371/journal.pone.0254946. eCollection 2021. (F.I. 2.740)
16. González-Domínguez, C.A., Villarroel, C.E., Rodríguez-Morales, M., Manrique-Hernández S., González-Jaimes A., Olvera-Rodríguez F., Beutelspacher K., **Molina-Garay C., Carrillo-Sánchez K.**, Flores-Lagunes L.L, Jiménez-Olivares M., **Muñoz-Rivas A.**, Cruz-Muñoz M.E., Mora-Montes H.M., Salinas-Marin R., **Alaez-Verson, C.**, Martínez-Duncker, I. Non-functional alternative splicing caused by a Latino pathogenic variant in a case of PMM2-CDG. *Mol Genet Metab Rep*. 2021 Jul 2;28:100781. doi: 10.1016/j.ymgmr.2021.100781. eCollection 2021 Sep. (F.I. 2.022)
 17. Fresan, A., **Genis-Mendoza, A.D.**, López-Narváez, M.L., Gómez-Peralta T.G., Aguilar-Velázquez D.G., Juárez-Rojop I.E., González-Castro T.B., Tovilla-Zarate C.A., Castillo-Avila, R.G., **Nicolini, H.** Association between short hours of sleep and overweight/obesity in mexican adolescent population: A school-based cross-sectional study. *Healthcare (Basel)*. 2021 Jul 26;9(8):939. doi: 10.3390/healthcare9080939. (F.I. 1.916)
 18. Martínez-Castillo M, Cruz-Robledo G, Hernández-Zavala A, **Córdova EJ.** Curcumin sensitizes Epstein-Barr-immortalized lymphoblastoid cell lines to inorganic arsenic toxicity. *Exp Ther Med*. 2021 Aug;22(2):872. doi: 10.3892/etm.2021.10304. Epub 2021 Jun 14. (F.I. 1.785)
 19. Toro Monjaraz, E.M., Ignorosa Arellano, K.R., Loredó Mayer, A., **Palacios-González B.**, Cervantes Bustamante, R., Ramirez Mayans, J.A. Gut Microbiota in Mexican Children with Acute Diarrhea: An Observational Study. *Pediatr Infect Dis J*. 2021 Aug 1;40(8):704-709. doi: 10.1097/INF.0000000000003128. (F.I. 2.126)
 20. Martínez-Cerón S, **Gutiérrez-Nágera NA**, Mirzaeicheshmeh E, Cuevas-Hernández RI, Trujillo-Ferrara JG. Phenylbenzothiazole derivatives: effects against a *Trypanosoma cruzi* infection and toxicological profiles. *Parasitol Res*. 2021 Aug;120(8):2905-2918. doi: 10.1007/s00436-021-07137-4. Epub 2021 Jul 1. (F.I. 1.641)
 21. **Miranda-Ortiz, H., Fernández-Figueroa, E.A.**, Ruíz-García, E.B., **Muñoz-Rivas A.**, Méndez-Pérez A., Méndez-Galván J., Astudillo-De la Vega H., Gabiño-López B., Nava-Monroy R., a la Torre A.L-F., Anaya T.L-V., Vilar-Compte D., Coquis-Navarrete U., Valdés-Reyes M., Sánchez-Montes, S., Becker, I. Development of an alternative saliva test for diagnosis of SARS-CoV-2 using TRizol: Adapting to countries with lower incomes looking for a large-scale detection program. *PLoS One*. 2021 Aug 18;16(8):e0255807. doi: 10.1371/journal.pone.0255807. eCollection 2021. (F.I. 2.740)
 22. Guzmán-Martínez, O., Guardado, K., Varela-Cardoso, M., Trujillo-Rivera A., Gómez-Nañez I., Ortiz-León M.C., Espinosa R., Ramos C., **Pérez-Carreón J.I.**, López-Guerrero- D.V., Sampieri C.L., Alanís-García A.B., Rojas-Durán F., Zenteno-Cuevas R., Gutiérrez, M., Montero, H. Potential protection of pre-existent antibodies to human coronavirus 229e on covid-19 severity. *Int J Environ Res Public Health*. 2021 Aug 27;18(17):9058. doi: 10.3390/ijerph18179058. (F.I. 2.849)

23. Caña-Bozada, V., Chapa-López, M., Díaz-Martín, R.D., García-Gasca A., Huerta-Ocampo J.A., **de Anda-Jáuregui, G.**, Morales-Serna, F.N. In silico identification of excretory/secretory proteins and drug targets in monogenean parasites. *Infect Genet Evol.* 2021 Sep;93:104931. doi: 10.1016/j.meegid.2021.104931. Epub 2021 May 21. (F.I. 2.773)
24. Pérez-Hernández, J., Retana-González, C., Ramos-Martínez, E., **Cruz-Colín J.**, Saralegui-Amaro A., Baltazar-Rosario G., Gutiérrez-Ruiz C., Aristi-Urista, G., López-Vancell, R. Entamoeba histolytica trophozoites interact with the c-Met receptor at the surface of liver origin cells through the gal/galnac amoebic lectin. *Life (Basel).* 2021 Sep 6;11(9):923. doi: 10.3390/life11090923. (F.I. 2.991)
25. Hernández-Díaz, Y., González-Castro, T.B., Juárez-Rojop, I.E., Tovilla-Zárate C.A., López-Narváez M.L., **Genis-Mendoza A.D.**, Fresan, A., **Nicolini, H.** The role of rs242941, rs1876828, rs242939 and rs110402 polymorphisms of CRHR1 gene and the depression: systematic review and meta-analysis. *Genes Genomics.* 2021 Nov;43(11):1339-1349. doi: 10.1007/s13258-021-01133-9. Epub 2021 Jul 19. (F.I. 1.188)
26. Rodríguez-Maldonado AP, Vázquez-Pérez JA, **Cedro-Tanda A**, Taboada B, Boukadida C, Wong-Arámbula C, Nuñez-García TE, Cruz-Ortiz N, Barrera-Badillo G, Hernández-Rivas L, López-Martínez I, **Mendoza-Vargas A**, **Reyes-Grajeda JP**, Alcaraz N, Peñalosa-Figueroa F, Gonzalez-Barrera D, Rangel-DeLeon D, **Herrera-Montalvo LA**, Mejía-Nepomuceno F, Hernández-Terán A, Mújica-Sánchez M, Becerril-Vargas E, Martínez-Orozco JA, Pérez-Padilla R, Salas-Hernández J, Sanchez-Flores A, Isa P, Matías-Florentino M, Ávila-Ríos S, Muñoz-Medina JE, Grajales-Muñiz C, Salas-Lais AG, Santos Coy-Arechavaleta A, **Hidalgo-Miranda A**, Arias CF, Ramírez-González JE. Emergence and spread of the potential variant of interest (VOI) B.1.1.519 of SARS-CoV-2 predominantly present in Mexico. *Arch Virol.* 2021 Nov;166(11):3173-3177. doi: 10.1007/s00705-021-05208-6. Epub 2021 Aug 27. (F.I. 2.243)
27. Velazquez-Roman J, Angulo-Zamudio UA, León-Sicairos N, Medina-Serrano J, DeLira-Bustillos N, Villamil-Ramírez H, **Canizales-Quinteros S**, Macías-Kauffer L, Campos-Romero A, Alcántar-Fernández J, Canizales-Roman A. Association of FTO, ABCA1, ADRB3, and PPARG variants with obesity, type 2 diabetes, and metabolic syndrome in a Northwest Mexican adult population. *J Diabetes Complications.* 2021 Nov;35(11):108025. doi: 10.1016/j.jdiacomp.2021.108025. Epub 2021 Aug 18. (F.I. 2.781)
28. Flores YN, Amoon AT, Su B, **Velazquez-Cruz R**, Ramírez-Palacios P, Salmerón J, Rivera-Paredes B, Sinsheimer JS, Lusi AJ, Huertas-Vazquez A, Saab S, Glenn BA, May FP, Williams KJ, Bastani R, Bensinger SJ. Serum lipids are associated with nonalcoholic fatty liver disease: a pilot case-control study in Mexico. *Lipids Health Dis.* 2021 Oct 10;20(1):136. doi: 10.1186/s12944-021-01526-5. (F.I. 2.906)
29. Cuevas-Córdoba, B., Fresno, C., Haase-Hernández, J.I., Barbosa-Amezcuca M., Mata-Rocha M., Muños-Tenorio M., Salazar-Lezama M.A., Martínez-Orozco J.A., Narváez-Díaz L.A., Salas-Hernández J., **González-Covarrubias, V.**, Soberón, X. A bioinformatics pipeline for Mycobacterium tuberculosis sequencing that cleans contaminant reads from sputum

samples. PLoS One. 2021 Oct 26;16(10):e0258774. doi: 10.1371/journal.pone.0258774. eCollection 2021. (F.I. 2.740)

30. **Vázquez-Jiménez, A., Resendis-Antonio, O.** Stochastic analysis of the RT-PCR process in single-cell RNA-Seq. *Mathematics* 2021, 9(19), 2515; <https://doi.org/10.3390/math9192515> (F.I. 1.747)
31. **Gómez-Romero L, Tovar H,** Moreno-Contreras J, Espinoza MA, **de-Anda-Jáuregui G.** Automated Reverse Transcription Polymerase Chain Reaction Data Analysis for Sars-CoV-2 Detection. *Rev Invest Clin.* 2021 Nov 5;73(6):339-346. doi: 10.24875/RIC.21000189. (F.I. 1.192)
32. **González-Covarrubias, V.,** Sánchez-Ibarra, H., Lozano-Gonzalez, K., Villicaña S., Taxis T., **Rodríguez-Dorantes M.,** Cortes-Ramírez S., Lavalle-González F., Soberón, X., Barrera-Saldaña, H. Transporters, TBC1D4, and ARID5B Variants to Explain Glycated Hemoglobin Variability in Patients with Type 2 Diabetes. *Pharmacology.* 2021;106(11-12):588-596. doi: 10.1159/000517462. Epub 2021 Jul 15. (F.I. 1.625)
33. Lozano-Sardaneta YN, Blum-Domínguez S, Huerta H, Tamay-Segovia P, **Fernández-Figueroa EA,** Becker I, Sánchez-Montes S. Detection of *Candidatus Bartonella odocoilei* n. sp. in *Lipoptena mazamae* associated with white-tailed deer in Campeche, Mexico. *Med Vet Entomol.* 2021 Dec;35(4):652-657. doi: 10.1111/mve.12536. Epub 2021 Jun 25. (F.I. 2.178)
34. Hernández-Díaz, Y., González-Castro, T.B., Tovilla-Zárate, C.A., López-Narváez M.L., **Genis-Mendoza A.D.,** Castillo-Avila R.G., Ramos-Méndez, M.Á., Juárez-Rojop, I.E. Oxytocin levels in individuals with schizophrenia are high in cerebrospinal fluid but low in serum: A systematic review and meta-analysis: Oxytocin and Schizophrenia. *Metab Brain Dis.* 2021 Dec;36(8):2415-2424. doi: 10.1007/s11011-021-00836-y. Epub 2021 Sep 8. (F.I. 2.726)
35. Noverón NR, Peralta LP, Compte DV, **Montalvo LAH,** Pineda SRG, Gómez AAG, Vega OAR, Gutiérrez RC, **Miranda AH, Vargas AM,** Martínez DR, Juárez PC, García AAM. SARS-CoV-2 positivity rates in asymptomatic workers at a cancer referral center in Mexico City: a prospective observational study in the context of adapting hospitals back to regular practice. *Am J Infect Control.* 2021 Dec;49(12):1469-1473. doi: 10.1016/j.ajic.2021.09.013. Epub 2021 Sep 20. (F.I. 2.294)
36. Ascencio-Carbajal T, **Saruwatari-Zavala G,** Navarro-Garcia F, Frixione E. Genetic/genomic testing: defining the parameters for ethical, legal and social implications (ELSI). *BMC Med Ethics.* 2021 Nov 23;22(1):156. doi: 10.1186/s12910-021-00720-5. (F.I. 2.451)
37. López-Sánchez GN, **Dominguez-Pérez M,** Uribe M, Chávez-Tapia NC, Nuño-Lámbarri N. Non-alcoholic fatty liver disease and microRNAs expression, how it affects the development and progression of the disease. *Ann Hepatol.* 2021 Mar-Apr;21:100212. doi: 10.1016/j.aohep.2020.04.012. Epub 2020 Jun 6. (F.I. 2.125)
38. **Genis-Mendoza AD,** Martínez-Magaña JJ, López-Narváez ML, González-Castro TB, Juárez-Rojop IE, **Nicolini H,** Tovilla-Zárate CA, Castillo-Avila RG.

Mental Health Problems Due to Social Isolation During the COVID-19 Pandemic in a Mexican Population. *Front Public Health*. 2021 Nov 23;9:703450. doi: 10.3389/fpubh.2021.703450. (F.I. 2.483)

39. Zepeda-Bastida A, Ocampo-López J, Alarcón-Sánchez BR, Idelfonso-García OG, **Rosas-Madrigal S, Aparicio-Bautista DI, Pérez-Carreón JI**, Villatreviño S, **Arellanes-Robledo J**. Aqueous extracts from *Tenebrio molitor* larval and pupal stages inhibit early hepatocarcinogenesis in vivo. *J Zhejiang Univ Sci B*. 2021 Dec 15;22(12):1045-1052. doi: 10.1631/jzus.B2100201. (F.I. 2.082)
40. Fabian-Morales E, Fernández-Cáceres C, Gudiño A, Andonegui Elguera MA, Torres-Arciga K, Escobar Arrazola MA, Tolentino García L, Alfaro Mora YE, Oliva-Rico DA, Cáceres Gutiérrez RE, Domínguez Ortíz J, Castro Hernández C, **Herrera Montalvo LA**, Díaz-Negrete DB, Reynoso-Noverón N. Genotoxicity of Marijuana in Mono-Users. *Front Psychiatry*. 2021 Dec 6;12:753562. doi: 10.3389/fpsyt.2021.753562. (F.I. 2.849)

Grupo IV

41. Eagles NJ, Burke EE, Leonard J, Barry BK, Stolz JM, Huuki L, Phan BN, Serrato VL, Gutiérrez-Millán E, Aguilar-Ordoñez I, Jaffe AE, Collado-Torres L. Share. SPEAQeasy: a scalable pipeline for expression analysis and quantification for R/bioconductor-powered RNA-seq analyses. *BMC Bioinformatics*. 2021 May 1;22(1):224. doi: 10.1186/s12859-021-04142-3. (F.I. 3.242)
42. **Hernández-Lemus E**, Martínez-García M. Pathway-Based Drug-Repurposing Schemes in Cancer: The Role of Translational Bioinformatics. *Front Oncol*. 2021 Jan 14;10:605680. doi: 10.3389/fonc.2020.605680. (F.I. 4.848)
43. Uriarte-Navarrete I, **Hernández-Lemus E, de Anda-Jáuregui G**. Gene-Microbiome Co-expression Networks in Colon Cancer. *Front Genet*. 2021 Feb 15;12:617505. doi: 10.3389/fgene.2021.617505. (F.I. 3.260)
44. Martínez-García M, Gutiérrez-Esparza GO, Roblero-Godinez JC, Marín-Pérez DV, Montes-Ruiz CL, Vallejo M, **Hernández-Lemus E**. Cardiovascular Risk Factors and Social Development Index. *Front Cardiovasc Med*. 2021 Feb 23;8:631747. doi: 10.3389/fcvm.2021.631747. (F.I. 3.915)
45. Andonegui-Elguera SD, Zamora-Fuentes JM, **Espinal-Enríquez J, Hernández-Lemus E**. Loss of Long Distance Co-Expression in Lung Cancer. *Front Genet*. 2021 Mar 10;12:625741. doi: 10.3389/fgene.2021.625741. (F.I. 3.260)
46. Ochoa S, **de Anda-Jáuregui G, Hernández-Lemus E**. An Information Theoretical Multilayer Network Approach to Breast Cancer Transcriptional Regulation. *Front Genet*. 2021 Mar 18;12:617512. doi: 10.3389/fgene.2021.617512. (F.I. 3.260)
47. González-Pedroza MG, Argueta-Figueroa L, García-Contreras R, Jiménez-Martínez Y, **Martínez-Martínez E**, Navarro-Marchal SA, Marchal JA, Morales-Luckie RA, Boulaiz H. Silver Nanoparticles from *Annona muricata* Peel and Leaf Extracts as a Potential Potent, Biocompatible and Low Cost

Antitumor Tool. *Nanomaterials* (Basel). 2021 May 12;11(5):1273. doi: 10.3390/nano11051273. (F.I. 4.324)

48. Castro-Gil MP, Sánchez-Rodríguez R, Torres-Mena JE, López-Torres CD, Quintanar-Jurado V, Gabiño-López NB, Villa-Treviño S, Del-Pozo-Jauner L, **Arellanes-Robledo J, Pérez-Carreón JI**. Enrichment of progenitor cells by 2-acetylaminofluorene accelerates liver carcinogenesis induced by diethylnitrosamine in vivo. *Mol Carcinog*. 2021 Jun;60(6):377-390. doi: 10.1002/mc.23298. Epub 2021 Mar 25. (F.I. 3.825)
49. **Mendoza-Caamal, E.C., Barajas-Olmos, F.**, Mirzaeicheshmeh, E., Llizaliturri-Flores I., Aguilar-Salinas C.A., Gómez-Velasco D.V., Ciserón-Arellano I., Reséndiz-Rodríguez A., **Martínez-Hernández A., Contreras-Cubas C., García-Ortiz, H., Orozco, L.** Two novel variants in DYRK1B causative of AOMS3: expanding the clinical spectrum. *Orphanet J Rare Dis*. 2021 Jun 30;16(1):291. doi: 10.1186/s13023-021-01924-z. (F.I. 3.523)
50. Sanjuán J, **Castro-Martínez XH**, García-Martí G, González-Fernández J, Sanz-Requena R, Haro JM, Meana JJ, Martí-Bonmatí L, Nacher J, Sebastiá-Ortega N, Gilabert-Juan J, Moltó MD. FOXP2 expression and gray matter density in the male brains of patients with schizophrenia. *Brain Imaging Behav*. 2021 Jun;15(3):1403-1411. doi: 10.1007/s11682-020-00339-x. (F.I. 3.391)
51. Rivera-Paredes B, Quezada-Sánchez AD, Denova-Gutiérrez E, Torres-Ibarra L, Flores YN, Salmerón J, **Velázquez-Cruz R**. Diet Modulates the Effects of Genetic Variants on the Vitamin D Metabolic Pathway and Bone Mineral Density in Mexican Postmenopausal Women. *J Nutr*. 2021 Jul 1;151(7):1726-1735. doi: 10.1093/jn/nxab067. Erratum in: *J Nutr*. 2021 Jun 1;151(6):1675. (F.I. 4.281)
52. Pérez-Amado, C.J., Bazan-Cordoba, A., **Hidalgo-Miranda, A., Jiménez-Morales, S.** Mitochondrial heteroplasmy shifting as a potential biomarker of cancer progression. *Int J Mol Sci*. 2021 Jul 9;22(14):7369. doi: 10.3390/ijms22147369. (F.I. 4.556)
53. Ballinas-Verdugo, M.A., Jiménez-Ortega, R.F., **Martínez-Martínez, E.**, Rivas N., Contreras-López E.A., Carbo R., Sánchez F., Bojalil R., Márequez-Velasco R., Sánchez-Muñoz, F., Alejandre-Aguilar, R. Circulating miR-146a as a possible candidate biomarker in the indeterminate phase of Chagas disease. *Biol Res*. 2021 Jul 21;54(1):21. doi: 10.1186/s40659-021-00345-3. (F.I. 3.092)
54. **Rosas-Madrigal, S., Villarreal-Molina, M.T.**, Flores-Rivera, J., Rivas-Alonso V., Macías-Kauffer L.R., Ordoñez G., Chima-Galán M.D.C., Acuña-Alonzo V., Macín-Pérez G., Barquera R., Granados J., Valle-Ríos R., Corona T., **Carnevale, A., Romero-Hidalgo, S.** Interaction of HLA Class II rs9272219 and TMPO rs17028450 (Arg690Cys) Variants Affects Neuromyelitis Optica Spectrum Disorder Susceptibility in an Admixed Mexican Population. *Front Genet*. 2021 Jul 15;12:647343. doi: 10.3389/fgene.2021.647343. eCollection 2021. (F.I. 3.260)
55. Rivera-Paredes, B., Hidalgo-Bravo, A., León-Reyes, G., Antuna-Puente B., Flores Y.N., Salmerón, J., **Velázquez-Cruz, R.** Association of GC Variants

with Bone Mineral Density and Serum VDBP Concentrations in Mexican Population. *Genes (Basel)*. 2021 Jul 29;12(8):1176. doi: 10.3390/genes12081176. (F.I. 3.759)

56. Baltazares-Lipp ME, Aguilera-Velasco A, Aquino-Gálvez A, **Velázquez-Cruz R**, Hernández-Zenteno RJ, Alvarado-Vásquez N, Camarena A, Sierra-Vargas MP, Chávez-Pacheco JL, Ruiz V, Salinas-Lara C, Tena-Suck ML, Romero Y, Torres-Espíndola LM, Castillejos-López M. Evaluating of Red Blood Cell Distribution Width, Comorbidities and Electrocardiographic Ratios as Predictors of Prognosis in Patients with Pulmonary Hypertension. *Diagnostics (Basel)*. 2021 Jul 20;11(7):1297. doi: 10.3390/diagnostics11071297. (F.I. 3.110)
57. Jaimes-Hoy L, Pérez-Maldonado A, Narváez Bahena E, de la Cruz Guarneros N, Rodríguez-Rodríguez A, Charli JL, **Soberón X**, Joseph-Bravo P. Sex dimorphic changes in Trh gene methylation and thyroid-axis response to energy demands in maternally-separated rats. *Endocrinology*. 2021 Aug 1;162(8):bqab110. doi: 10.1210/endo/bqab110. (F.I. 3.934)
58. Dorantes-Gilardi, R., García-Cortés, D., **Hernández-Lemus, E., Espinal-Enríquez, J.** K-core genes underpin structural features of breast cancer. *Sci Rep*. 2021 Aug 11;11(1):16284. doi: 10.1038/s41598-021-95313-y. (F.I. 3.998)
59. Carlos-Escalante JA, Gómez-Flores-Ramos L, Bian X, Perdomo-Pantoja A, de Andrade KC, Mejía-Pérez SI, Cacho-Díaz B, González-Barrios R, Reynoso-Noverón N, Soto-Reyes E, Sánchez-Correa TE, Guerra-Calderas L, Yan C, Chen Q, Castro-Hernández C, Vidal-Millán S, Taja-Chayeb L, Gutiérrez O, Álvarez-Gómez RM, Gómez-Amador JL, Ostrosky-Wegman P, Mohar-Betancourt A, **Herrera-Montalvo LA**, Corona T, Meerzaman D, Wegman-Ostrosky T. Landscape of Germline Genetic Variants in AGT, MGMT, and TP53 in Mexican Adult Patients with Astrocytoma. *Cell Mol Neurobiol*. 2021 Aug;41(6):1285-1297. doi: 10.1007/s10571-020-00901-7. Epub 2020 Jun 13. (F.I. 3.606)
60. Bikel, S., López-Leal, G., Cornejo-Granados, F., Gallardo-Becerra L., García-López R., Sánchez F., Equihua-Medina E., Ochoa-Romo J.P., **López-Contreras B.E., Canizales-Quinteros S., Hernández-Reyna A., Mendoza-Vargas, A.,** Ochoa-Leyva, A. Gut dsDNA virome shows diversity and richness alterations associated with childhood obesity and metabolic syndrome. *iScience*. 2021 Jul 24;24(8):102900. doi: 10.1016/j.isci.2021.102900. eCollection 2021 Aug 20. (F.I. 4.447)
61. Velázquez-Enríquez JM, Santos-Álvarez JC, Ramírez-Hernández AA, Reyes-Jiménez E, López-Martínez A, Pina-Canseco S, Aguilar-Ruiz SR, Romero-Tlalolini MLÁ, Castro-Sánchez L, **Arellanes-Robledo J**, Vásquez-Garzón VR, Baltiérrez-Hoyos R. Proteomic Analysis reveals key proteins in extracellular vesicles cargo associated with Idiopathic pulmonary fibrosis in vitro. *Biomedicines*. 2021 Aug 20;9(8):1058. doi: 10.3390/biomedicines9081058. (F.I. 4.717)
62. **Ramírez-Salazar EG**, Gayosso-Gómez LV, Baez-Saldaña R, Falfán-Valencia R, Pérez-Padilla R, Higuera-Iglesias AL, Vázquez-Manríquez ME, Ortiz-Quintero B. Cigarette smoking alters the expression of circulating

- microRNAs and its potential diagnostic value in female lung cancer patients. *biology* (Basel). 2021 Aug 18;10(8):793. doi: 10.3390/biology10080793. (F.I. 3.796)
63. Valdez-Palomares F, Muñoz Torrico M, **Palacios-González B**, Soberón X, **Silva-Herzog E**. Altered Microbial Composition of Drug-Sensitive and Drug-Resistant TB Patients Compared with Healthy Volunteers. *Microorganisms*. 2021 Aug 18;9(8):1762. doi: 10.3390/microorganisms 9081762. (F.I. 4.152)
64. Benatti B, Dell'Osso B, Shen H, Filippou-Frye M, Varias A, Sanchez C, Jo B, Hollander E, Fineberg NA, Stein DJ, **Nicolini H**, Lanzagorta N, Marazziti D, Pallanti S, Van Ameringen M, Lochner C, Karamustafalioglu O, Hranov L, Figeo M, Drummond L, Grant JE, Denys D, Fontenelle LF, Menchon JM, Zohar J, Pellegrini L, Rodriguez CI. Prevalence and correlates of current suicide risk in an international sample of OCD adults: A report from the International College of Obsessive-Compulsive Spectrum Disorders (ICOCS) network and Obsessive Compulsive and Related Disorders Network (OCRN) of the European College of Neuropsychopharmacology. *J Psychiatr Res*. 2021 Aug;140:357-363. doi: 10.1016/j.jpsychires.2021.05.054. Epub 2021 May 27. (F.I. 3.745)
65. Flores-León M, Alcaraz N, Pérez-Domínguez M, Torres-Arciga K, Rebollar-Vega R, De la Rosa-Velázquez IA, Arriaga-Canon C, **Herrera LA**, Arias C, González-Barrios R. Transcriptional Profiles Reveal Deregulation of Lipid Metabolism and Inflammatory Pathways in Neurons Exposed to Palmitic Acid. *Mol Neurobiol*. 2021 Sep;58(9):4639-4651. doi: 10.1007/s12035-021-02434-6. Epub 2021 Jun 21. (F.I. 4.500)
66. Guerrero-Contreras, I., Hernández-Tobías, E.A., **Velázquez-Cruz, R.**, Ramírez-López E., Campos-Góngora, E., Jiménez-Salas, Z. The BDNF rs7934165 polymorphism is a biomarker of central obesity and cardiometabolic risk in Mexican women. *Eur Rev Med Pharmacol Sci*. 2021 Sep;25(17):5463-5473. doi: 10.26355/eurrev_202109_26655. (F.I. 3.024)
67. **Palacios-González, B.**, **León-Reyes, G.**, Rivera-Paredes, B., Ibarra-González I., Vela-Amieva M., Flores Y.N., **Canizalez-Quinteros S.**, Salmerón, J., **Velázquez-Cruz, R.** Serum metabolite profile associated with sex-dependent visceral adiposity index and low bone mineral density in a mexican population. *Metabolites*. 2021 Sep 6;11(9):604. doi: 10.3390/metabo11090604. (F.I. 4.097)
68. González-Domínguez CA, Fiesco-Roa MO, Gómez-Carmona S, Kleinert-Altamirano API, He M, Daniel EJP, Raymond KM, Abreu-González M, Manrique-Hernández S, González-Jaimes A, Salinas-Marín R, **Molina-Garay C**, **Carrillo-Sánchez K**, Flores-Lagunes LL, Jiménez-Olivares M, **Muñoz-Rivas A**, Cruz-Muñoz ME, Ruíz-García M, Freeze HH, Mora-Montes HM, **Alaiz-Verson C**, Martínez-Duncker I. ALG1-CDG Caused by Non-functional Alternative Splicing Involving a Novel Pathogenic Complex Allele. *Front Genet*. 2021 Sep 30; 12:777731. doi: 10.3389/fgene.2021.777731. Erratum for: *Front Genet*. 2021 Sep 09; 12:744884. (F.I. 3.260)
69. Nolasco-Rosales, G.A., Martínez-Magaña, J.J., Juárez-Rojop, I.E., González-Castro T.B., Tovilla-Zarate C.A., García A.R., Sarmiento E., Ruíz-Ramos D., **Genis-Mendoza, A.D.**, **Nicolini, H.** Association study among

- comethylation modules, genetic polymorphisms and clinical features in mexican teenagers with eating disorders: Preliminary results. *Nutrients*. 2021 Sep 15;13(9):3210. doi: 10.3390/nu13093210. (F.I. 4.546)
70. Gomez-Verjan, J.C., Esparza-Aguilar, M., Martín-Martín, V., Salazar-Pérez C., Cadena-Trejo C., Gutiérrez-Robledo L.M., Martínez-Magaña J.J., **Nicolini, H.**, Arroyo, P. Years of schooling could reduce epigenetic aging: A study of a mexican cohort. *Genes (Basel)*. 2021 Sep 13;12(9):1408. doi: 10.3390/genes12091408. (F.I. 3.759)
 71. Alcalá-Corona SA, **Sandoval-Motta S, Espinal-Enríquez J, Hernández-Lemus E**. Modularity in Biological Networks. *Front Genet*. 2021 Sep 14;12:701331. doi: 10.3389/fgene.2021.701331. (F.I. 3.260)
 72. **Moran-Ramos, S.**, Macias-Kauffer, L., **López-Contreras, B.E.**, Villamil-Ramírez H., Ocampo-Medina E., León-Mimila P., del Río-Navarro B.E., Granados-Portillo O., Ibarra-González I., Vela-Amieva M., Tovar A.R., Torres N., Gómez-Pérez F.J., Aguilar-Salinas, C., **Canizales-Quinteros, S**. A higher bacterial inward BCAA transport driven by *Faecalibacterium prausnitzii* is associated with lower serum levels of BCAA in early adolescents. *Mol Med*. 2021 Sep 15;27(1):108. doi: 10.1186/s10020-021-00371-7. (F.I. 4.096)
 73. **Vázquez-Jiménez A**, Avila-Ponce De León UE, Matadamas-Guzman M, Muciño-Olmos EA, Martínez-López YE, Escobedo-Tapia T, **Resendis-Antonio O**. On Deep Landscape Exploration of COVID-19 Patients Cells and Severity Markers. *Front Immunol*. 2021 Sep 16;12:705646. doi: 10.3389/fimmu.2021.705646. eCollection 2021. (F.I. 5.085)
 74. Espino-Y-Sosa, S., Martinez-Portilla, R.J., Torres-Torres, J., Solís-Paredes J.M., Estrada-Gutiérrez G., Hernández-pacheco J.A., Espejel-Nuñez A., Mateu-Rogell P., Juárez-Reyes A., López_Ceh F.E., **Villafán-Bernal J.R.**, Rojas-Zepeda L., Guzman-Guzman, I.P., Poon, L.C. Novel ratio soluble fms-like tyrosine kinase-1/angiotensin-ii (Sflt-1/ang-ii) in pregnant women is associated with critical illness in COVID-19. *Viruses*; 13(10):1906, 2021. Sept 23 doi 10.3390/v13101906 (F.I. 3.816)
 75. Rivera-Paredes, B., Hidalgo-Bravo, A., **León-Reyes, G.**, León-Maldonado L.S., Aquino-Gálvez A., Castillejos-López M., Denova-Gutiérrez E., Flores Y.N., Salmerón, J., **Velázquez-Cruz, R**. Total, Bioavailable, and Free 25-Hydroxyvitamin D Equally Associate with Adiposity Markers and Metabolic Traits in Mexican Adults. *Nutrients*. 2021 Sep 23;13(10):3320. doi: 10.3390/nu13103320. (F.I. 4.546)
 76. Ruiz-Garcia E, Peña-Nieves A, Alegria-Baños J, Cornejo-Juarez P, Meneses-García A, Rivera SR, Sánchez JJ, Gerson-Cwilich R, Gerson DS, Franco HM, Buerba GA, Espinoza AA, Mijares NV, **Fernández-Figueroa EA**, Vázquez RA, Vilar-Compte D. Prognostic factors in cancer patients infected with SARS-CoV-2: a Latin American country results. *Ther Adv Chronic Dis*. 2021 Sep 26;12:20406223211047755. doi: 10.1177/20406223211047755. eCollection 2021. (F.I. 4.257)
 77. Jiménez, D., Soto, M.E., Martínez-Martínez, L.A., Hernández-López D., Lerma C., Barragán-Garfías J.A., Pérez-Torres I., **Hernández-Lemus, E.**, Guarner-Lans, V. Assessment of inflammatory activity in Takayasu s arteritis:

Performance of clinical scores and common biomarkers versus 18F-FDG PET/CT. *Clin Exp Rheumatol*. Sep-Oct 2021; 39 (5):1011-1020. Epub 2020 Oct 29. (F.I. 3.319)

78. Contreras-Espinosa L, Alcaraz N, De La Rosa-Velázquez IA, Díaz-Chávez J, Cabrera-Galeana P, Vega RR, Reynoso-Noveron N, Maldonado-Martínez HA, González-Barrios R, Montiel-Manríquez R, Bautista-Sánchez D, Castro-Hernández C, Álvarez-Gómez RM, Jiménez-Trejo F, Tapia-Rodríguez M, García-Gordillo J, Pérez-Rosas A, Bargallo-Rocha E, Arriaga-Canon C, **Herrera LA**. Transcriptome Analysis Identifies GATA3-AS1 as a Long Noncoding RNA Associated with Resistance to Neoadjuvant Chemotherapy in Locally Advanced Breast Cancer Patients. *J Mol Diagn*. 2021 Oct;23(10):1306-1323. doi: 10.1016/j.jmoldx.2021.07.014. Epub 2021 Aug 4. (F.I. 5.553)
79. Morales-Rivera, M.I., Alemón-Medina, R., **Martínez-Hernández, A.**, Gómez-Garduño J., Mirzaeicheshmeh E., Altarmirano-Bustamante N.F., Ilizaliturri-Flores I., **Mendoza-Caamal E.C.**, Pérez-Guillé M.G., García-Álvarez R., **Contreras-Cubas C.**, **Centeno-Cruz F.**, Revilla-Monsalve C., **García-Ortiz H.**, **Barajas-Olmos, F.**, **Orozco, L.** The L125F MATE1 variant enriched in populations of Amerindian origin is associated with increased plasma levels of metformin and lactate. *Biomed Pharmacother*. 2021 Oct;142:112009. doi: 10.1016/j.biopha.2021.112009. Epub 2021 Aug 11. (F.I. 4.545)
80. Cuenca-Micó, O., Delgado-González, E., Anguiano, B., Vaca-Paniagua F., Medina-Rivera A., **Rodríguez-Dorantes, M.**, Aceves, C. Effects of molecular iodine/chemotherapy in the immune component of breast cancer tumoral microenvironment. *Biomolecules*. 2021 Oct 12;11(10):1501. doi: 10.3390/biom11101501. (F.I. 4.082)
81. Vargas-Morales, J.M., Guizar-Heredia, R., Méndez-García, A.L., **Palacios-González B.**, Schcolnik-Cabrera A., granados O., López-Barradas A.M., Vázquez-Manjarrez N., Medina-Vera I., Aguilar-López M., Tovar-Palacio C., Ordaz-Nava G., Rocha-Viggiano A.K., Medina-Cerda E., Torres N., Ordovas J.M., Tovar A.R., Guevara-Cruz, M., Noriega, L.G. Association of BCAT2 and BCKDH polymorphisms with clinical, anthropometric and biochemical parameters in young adults. *Nutr Metab Cardiovasc Dis*. 2021 Oct 28;31(11):3210-3218. doi: 10.1016/j.numecd.2021.07.011. Epub 2021 Jul 24. (F.I. 3.700)
82. Vergara-Gerónimo CA, Del Río AL, **Rodríguez-Dorantes M**, Ostrosky-Wegman P, Salazar AM. Arsenic-protein interactions as a mechanism of arsenic toxicity. *Toxicol Appl Pharmacol*. 2021 Nov 15;431:115738. doi: 10.1016/j.taap.2021.115738. Epub 2021 Oct 4. (F.I. 3.347)
83. Hernández-Díaz, Y., **Genis-Mendoza, A.D.**, González-Castro, T.B., Tovilla-Zárate C.A., Juárez-Rojop I.E., López-Narváez, M.L., **Nicolini, H.** Association and genetic expression between genes involved in HPA axis and suicide behavior: A systematic review. *Genes (Basel)*. 2021 Oct 13;12(10):1608. doi: 10.3390/genes12101608. (F.I. 3.759)
84. Martinez-Medina, J.N., Flores-Lopez, R., **López-Contreras, B.E.**, Villamil-Ramirez H., Guzmán-Muñoz D., Macias-Kauffer L.R., León-Mimila P.,

- Granados-Portillo O., Del Río-Navarro B.E., Gómez-Pérez F.J., Aguilar-Salinas C.A., Torres N., Tovar A.R., **Canizales-Quinteros, S., Moran-Ramos, S.** Effect of gut microbial enterotypes on the association between habitual dietary fiber intake and insulin resistance markers in mexican children and adults. *Nutrients* 2021, 13(11), 3892; <https://doi.org/10.3390/nu13113892> (F.I. 4.546)
85. Barrera-Reyes, P.K., Cortés-Fernández de Lara, J., Poquet, L., Redeuil K., Kussmann M., Silva-Zolezzi, I., **Tejero, E.M.** Circulating structurally related (-)-epicatechin metabolite species and levels after sustained intake of a cocoa powder high in polyphenols are comparable to those achieved after a single dose. *Nutrients* 2021, 13(11), 3829; <https://doi.org/10.3390/nu13113829> (F.I. 4.546)
86. **Cedro-Tanda, A., Gómez-Romero, L.,** Alcaraz, N., **de Anda-Jauregui G.,** Peñaloza F., Moreno B., Escobar-Arrazola M.A., Ramírez-Vega O.A., Munguia-Garza P., García-Cardenas F., Cisneros-Villanueva M., Moreno-Camacho J.L., Rodríguez-Galegos J., Luna-Ruiz Esparza M.A., Fernández-Rojas M.A., **Mendoza-Vargas A., Reyes-Grajeda J.P.,** Campos-Romero A., Angulo O., Ruíz R., Sheinbaum-Pardo C., Sifuentes-Osorino J., Kershenobich D., **Hidalgo-Miranda, A., Herrera, L.A.** The evolutionary landscape of SARS-CoV-2 variant b.1.1.519 and its clinical impact in Mexico City. *Viruses* 2021, 13(11), 2182; <https://doi.org/10.3390/v13112182> (F.I. 3.816)
87. Martínez-García M, **Hernández-Lemus E.** Periodontal Inflammation and Systemic Diseases: An Overview. *Front Physiol.* 2021 Oct 27;12:709438. doi: 10.3389/fphys.2021.709438. PMID: 34776994 (F.I. 3.367)
88. González-Castro, T.B., **Genis-Mendoza, A.D.,** León-Escalante, D.I., Hernández-Díaz Y., Juárez-Rojop I.E., Tovilla-Zárate C.A., López-Narváez M.L., Marín-Medina A., **Nicolini H.,** Castillo-Avila, R.G., Ramos-Méndez, M.Á. Possible association of cholesterol as a biomarker in suicide behavior. *Biomedicines* 2021, 9 (11), 1559. <https://doi.org/10.3390/biomedicines9111559> (F.I. 4.717)
89. Contreras-Alvarado, L.M., Zavala-Vega, S., Cruz-Córdova, A., **Reyes-Grajeda J.P.,** Escalona-Venegas G., Flores V., Alcáraz-López V., Arellano-Galindo J., Hernández Castro R., Castillo-Escarpulli G., Xicohtencatl-Cortes, J., Ochoa, S.A. Molecular epidemiology of multidrug-resistant uropathogenic escherichia coli o25b strains associated with complicated urinary tract infection in children. *Microorganisms* 2021, Nov 5;9(11), 2299; <https://doi.org/10.3390/microorganisms9112299> (F.I. 4.152)
90. Alfaro-Mora Y, Domínguez-Gómez G, Cáceres-Gutiérrez RE, Tolentino-García L, **Herrera LA,** Castro-Hernández C, Bermúdez-Cruz RM, Díaz-Chávez J. MPS1 is involved in the HPV16-E7-mediated centrosomes amplification. *Cell Div.* 2021 Nov 4;16(1):6. doi: 10.1186/s13008-021-00074-9. (F.I. 3.667)
91. **Jiménez-Morales S,** Núñez-Enríquez JC, Cruz-Islas J, Bekker-Méndez VC, Jiménez-Hernández E, Medina-Sanson A, Olarte-Carrillo I, Martínez-Tovar A, Flores-Lujano J, Ramírez-Bello J, Pérez-Saldívar ML, Martín-Trejo JA, Pérez-Lorenzana H, Amador-Sánchez R, Mora-Ríos FG, Peñaloza-González JG,

- Duarte-Rodríguez DA, Torres-Nava JR, Flores-Bautista JE, Espinosa-Elizondo RM, Román-Zepeda PF, Flores-Villegas LV, Tamez-Gómez EL, López-García VH, Lara-Ramos JR, González-Ulivarri JE, Martínez-Silva SI, Espinoza-Anrubio G, Almeida-Hernández C, Ramírez-Colorado R, Hernández-Mora L, García-López LR, Cruz-Ojeda GA, Godoy-Esquivel AE, Contreras-Hernández I, Medina-Hernández A, López-Caballero MG, Hernández-Pineda NA, Granados-Kraulles J, Rodríguez-Vázquez MA, Torres-Valle D, Cortés-Reyes C, Medrano-López F, Pérez-Gómez JA, Martínez-Ríos A, Aguilar-De-Los-Santos A, Serafin-Díaz B, Gutiérrez-Rivera ML, Merino-Pasaye LE, Vargas-Alarcón G, Mata-Rocha M, Sepúlveda-Robles OA, Rosas-Vargas H, Hidalgo-Miranda A, Mejía-Arangur JM. Association Analysis Between the Functional Single Nucleotide Variants in miR-146a, miR-196a-2, miR-499a, and miR-612 With Acute Lymphoblastic Leukemia. *Front Oncol.* 2021 Nov 5;11:762063. doi: 10.3389/fonc.2021.762063. eCollection 2021. (F.I. 4.848)
92. Mirzaeicheshmeh E, Zerrweck C, **Centeno-Cruz F**, Baca-Peynado P, **Martinez-Hernandez A**, **García-Ortiz H**, **Contreras-Cubas C**, **Salas-Martínez MG**, **Saldaña-Alvarez Y**, **Mendoza-Caamal EC**, **Barajas-Olmos F**, **Orozco L**. Alterations of DNA methylation during adipogenesis differentiation of mesenchymal stem cells isolated from adipose tissue of patients with obesity is associated with type 2 diabetes. *Adipocyte.* 2021 Dec;10(1):493-504. doi: 10.1080/21623945.2021.1978157. (F.I. 3.146)
93. Ábrego-Gacía A, Poggi-Varaldo HM, Robles-González V, Ponce-Noyola T, Calva-Calva G, Ríos-Leal E, Estrada-Bárceñas D, **Mendoza-Vargas A**. Lovastatin as a supplement to mitigate rumen methanogenesis: an overview. *J Anim Sci Biotechnol.* 2021 Dec 16;12(1):123. doi: 10.1186/s40104-021-00641-8. (F.I. 4.167)
94. **Jiménez-Morales S**, Aranda-Uribe IS, Pérez-Amado CJ, Ramírez-Bello J, **Hidalgo-Miranda A**. Mechanisms of Immunosuppressive Tumor Evasion: Focus on Acute Lymphoblastic Leukemia. *Front Immunol.* 2021 Nov 18;12:737340. doi: 10.3389/fimmu.2021.737340. eCollection 2021. (F.I. 5.085)
95. Rojas-Ochoa A, **Córdova EJ**, Carrillo-García A, Lizano M, Pedraza-Chaverri J, **Patiño N**, Cruz-Gregorio A, Osnaya N. The Polyphenols α -Mangostin and Nordihydroguaiaretic Acid Induce Oxidative Stress, Cell Cycle Arrest, and Apoptosis in a Cellular Model of Medulloblastoma. *Molecules.* 2021 Nov 29;26(23):7230. doi: 10.3390/molecules26237230. (F.I. 3.267)
96. Omaña-Guzmán LI, Ortiz-Hernández L, Ancira-Moreno M, Morales-Hernández V, O'Neill MS, **Vadillo-Ortega F**. Association of pre-pregnancy body mass index and rate of weight gain during pregnancy with maternal indicators of cardiometabolic risk. *Nutr Diabetes.* 2021 Nov 25;11(1):36. doi: 10.1038/s41387-021-00178-9. (F.I. 4.357)
97. González-Espinoza A, Zamora-Fuentes J, **Hernández-Lemus E**, **Espinal-Enríquez J**. Gene Co-Expression in Breast Cancer: A Matter of Distance. *Front Oncol.* 2021 Nov 17;11:726493. doi: 10.3389/fonc.2021.726493. (F.I. 4.848)
98. Gallegos-Cabriales, E.C.; Rodriguez-Ayala, E.; Laviada-Molina, H.A.; Nava-Gonzalez, E.J.; Salinas-Osornio, R.A.; **Orozco, L.**; Leal-Berumen, I.; Castillo-

- Pineda, J.C.; Gonzalez-Lopez, L.; Escudero-Lourdes, C.; Cornejo-Barrera, J., Escalante-Araiza, F., Huerta-Avila EE., Buenfil-Rello FA., Peschard VG., Silva, E., Veloz-Garza, RA., **Martínez-Hernández, A., Barajas-Olmos, FM.**, Molina-Segui, F., González-Ramírez, L., Arjona-Villicaña, RD., Hernández-Escalante, VM., Gaytán-Saucedo, JF., Vaquera, Z., Acebo-Martínez, M., Murillo-Ramírez, A., Díaz-Tena, SP., Figueroa-Nuñez, B., Valencia-Rendón, ME., Garzon-Zamora, R., Viveros-Paredes, JM., Valdovinos-Chavez, SB., Comuzzie AG., Haack, K., Thorsell, AA., Han, X., Cole, SA., Bastarrachea, RA. Replication of Integrative Data Analysis for Adipose Tissue Dysfunction, Low Grade Inflammation, Postprandial Responses and OMICs Signatures in Symptom-Free Adults. *Biology* 2021, Dec 16;10, 1342. <https://doi.org/10.3390/biology10121342>. (F.I. 3.796)
99. Romero-Pimentel AL, Almeida D, Muñoz-Montero S, **Rangel C**, Mendoza-Morales R, Gonzalez-Saenz EE, Nagy C, Chen G, Aouabed Z, Theroux JF, Turecki G, Martinez-Levy G, Walss-Bass C, Monroy-Jaramillo N, **Fernández-Figueroa EA**, Gómez-Cotero A, García-Dolores F, **Morales-Marin ME, Nicolini H**. Integrative DNA Methylation and Gene Expression Analysis in the Prefrontal Cortex of Mexicans who died by Suicide. *Int J Neuropsychopharmacol.* 2021 Dec 8;24(12):935-947. doi: 10.1093/ijnp/pyab042. (F.I. 4.333)
100. Alarcón-Sánchez, B.R., **Pérez-Carreón, J.I.**, Villa-Treviño, S., **Arellanes-Robledo, J.** Molecular alterations that precede the establishment of the hallmarks of cancer: An approach on the prevention of hepatocarcinogenesis. *Biochem Pharmacol.* 2021 Dec;194:114818. doi: 10.1016/j.bcp.2021.114818. Epub 2021 Oct 30. (F.I. 4.960)
101. Rocha-González HI, De la Cruz-Álvarez LE, Kammar-García A, **Canizales-Quinteros S**, Huerta-Cruz JC, Barranco-Garduño LM, Reyes-García JG. Weight Loss at First Month and Development of Tolerance as Possible Predictors of 30 mg Phentermine Efficacy at 6 Months. *J Pers Med.* 2021 Dec 12;11(12):1354. doi: 10.3390/jpm11121354. (F.I. 4.433)
102. Madrigal T, Hernández-Monge J, **Herrera LA**, González-De la Rosa CH, Domínguez-Gómez G, Candelaria M, Luna-Maldonado F, Calderón González KG, Díaz-Chávez J. Regulation of miRNAs Expression by Mutant p53 Gain of Function in Cancer. *Front Cell Dev Biol.* 2021 Dec 6;9:695723. doi: 10.3389/fcell.2021.695723. eCollection 2021. (F.I. 5.186)
103. Luna-Maldonado F, Andonegui-Elguera MA, Díaz-Chávez J, **Herrera LA**. Mitotic and DNA Damage Response Proteins: Maintaining the Genome Stability and Working for the Common Good. *Front Cell Dev Biol.* 2021 Dec 13;9:700162. doi: 10.3389/fcell.2021.700162. (F.I. 3.356)

Grupo V

104. Sánchez-Rodríguez R, Munari F, Angioni R, Venegas F, Agnellini A, **Castro-Gil MP**, Castegna A, Luisetto R, Viola A, Canton M. Targeting monoamine oxidase to dampen NLRP3 inflammasome activation in inflammation. *Cell Mol Immunol.* 2021 May;18(5):1311-1313. doi: 10.1038/s41423-020-0441-8. Epub 2020 Apr 28. (F.I. 8.484)
105. León-Mimila P, Villamil-Ramírez H, Macías-Kauffer LR, **Jacobo-Albavera L, López-Contreras BE**, Posadas-Sánchez R, Posadas-Romero C, **Romero-**

- Hidalgo S, Morán-Ramos S, Domínguez-Pérez M**, Olivares-Arevalo M, Lopez-Montoya P, Nieto-Guerra R, Acuña-Alonzo V, Macín-Pérez G, Barquera-Lozano R, Del-Río-Navarro BE, González-González I, Campos-Pérez F, Gómez-Pérez F, Valdés VJ, Sampieri A, Reyes-García JG, Carrasco-Portugal MDC, Flores-Murrieta FJ, Aguilar-Salinas CA, Vargas-Alarcón G, Shih D, Meikle PJ, Calkin AC, Drew BG, Vaca L, Lulis AJ, Huertas-Vazquez A, **Villarreal-Molina T, Canizales-Quinteros S**. Genome-Wide Association Study Identifies a Functional SIDT2 Variant Associated With HDL-C (High-Density Lipoprotein Cholesterol) Levels and Premature Coronary Artery Disease. *Arterioscler Thromb Vasc Biol*. 2021 Sep;41(9):2494-2508. doi: 10.1161/ATVBAHA.120.315391. Epub 2021 Jul 8. (F.I. 6.604)
106. **Del Bosque-Plata L., Martinez-Martinez E.**, Espinoza-Camacho M.A., Gragnoli C. The Role of TCF7L2 in Type 2 Diabetes. *Diabetes*. 2021 Jun;70(6):1220-1228. doi: 10.2337/db20-0573. Epub 2021 May 20. (F.I. 7.720)
107. Sahu B, Pihlajamaa P, Zhang K, Palin K, Ahonen S, **Cervera A**, Ristimäki A, Aaltonen LA, Hautaniemi S, Taipale J. Human cell transformation by combined lineage conversion and oncogene expression. *Oncogene*. 2021 Sep;40(36):5533-5547. doi: 10.1038/s41388-021-01940-0. Epub 2021 Jul 23. (F.I. 7.971)
108. Martínez-Gregorio, H., Rojas-Jiménez, E., Mejía-Gómez, J.C., Díaz-Velázquez C., Quezada-Urban R., Vallejo-Leucona F., de la Cruz-Montoya A., porras-Reyes F.I., Pérez-Sánchez V.M., Maldonado-Martínez H.A., Robles-Estrada M., Bargalló-Rocha E., Cabrera-Galeana P., Ramos-Ramírez M., Chirino Y.I., **Herrera L.A.**, Terrazas L.I., Frecha C., Oliver J., Perdomo, S., Vaca-Paniagua, F. The evolution of clinically aggressive triple-negative breast cancer shows a large mutational diversity and early metastasis to lymph nodes. *Cancers (Basel)*. 2021 Oct 12;13(20):5091. doi: 10.3390/cancers13205091. (F.I. 6.126)
109. Rodríguez-Bautista, R.; Caro-Sánchez, C.H.; Cabrera-Galeana, P.; Alanis-Funes, G.J.; Gutierrez Millán, E.; Ávila-Ríos, S.; Matías-Florentino, M.; Reyes-Terán, G.; Díaz-Chávez, J.; Villarreal-Garza, C.; Hernández-Pedro, NY, Ortega-Gómez, A., Lara-Mejía, L., **Rangel-Escareño, C.**, Arrieta O. Immune Milieu and Genomic Alterations Set the Triple-Negative Breast Cancer Immunomodulatory Subtype Tumor Behavior. *Cancers* 2021, 13, 6256. <https://doi.org/10.3390/cancers13246256>. (F.I. 6.126)

Grupo VI

110. Larena M, McKenna J, **Sanchez-Quinto F**, Bernhardsson C, Ebeo C, Reyes R, Casel O, Huang JY, Hagada KP, Guilay D, Reyes J, Allian FP, Mori V, Azarcon LS, Manera A, Terando C, Jamero L Jr, Sireg G, Manginsay-Tremedal R, Labos MS, Vilar RD, Latiph A, Saway RL, Marte E, Magbanua P, Morales A, Java I, Reveche R, Barrios B, Burton E, Salon JC, Kels MJT, Albano A, Cruz-Angeles RB, Molanida E, Granehäll L, Vicente M, Edlund H, Loo JH, Trejaut J, Ho SYW, Reid L, Lambeck K, Malmström H, Schlebusch C, Endicott P, Jakobsson M. Philippine Ayta possess the highest level of Denisovan ancestry in the world. *Curr Biol*. 2021 Oct 11;31(19):4219-4230.e10. doi: 10.1016/j.cub.2021.07.022. Epub 2021 Aug 12. (F.I. 9.601)
111. **García-Ortiz H, Barajas-Olmos F, Contreras-Cubas C, Cid-Soto**

MÁ, Córdoba EJ, Centeno-Cruz F, Mendoza-Caamal E, Cicerón-Arellano I, Flores-Huacuja M, Baca P, Bolnick DA, Snow M, Flores-Martínez SE, Ortiz-Lopez R, Reynolds AW, Blanchet A, **Morales-Marín M, Velázquez-Cruz R**, Kostic AD, Galaviz-Hernández C, García-Zapién AG, Jiménez-López JC, **León-Reyes G**, Salas-Bautista EG, Lazalde-Ramos BP, Jiménez-Ruiz JL, **Salas-Martínez G**, Ramos-Madrigal J, Mirzaeicheshmeh E, **Saldaña-Alvarez Y**, Del Carmen **Abrahantes-Pérez M**, Loeza-Becerra F, Mojica-Espinosa R, **Sánchez-Quinto F**, Rangel-Villalobos H, Sosa-Macías M, Sánchez-Corona J, Rojas-Martinez A, **Martínez-Hernández A, Orozco L**. The genomic landscape of Mexican Indigenous populations brings insights into the peopling of the Americas. *Nat Commun.* 2021 Oct 12;12(1):5942. doi: 10.1038/s41467-021-26188-w. (F.I. 12.121)

Grupo VII

112. Allouche J, Rachmin I, Adhikari K, Pardo LM, Lee JH, McConnell AM, Kato S, Fan S, Kawakami A, Suita Y, Wakamatsu K, Igras V, Zhang J, Navarro PP, Lugo CM, Noonan HR, Christie KA, Itin K, Mujahid N, Lo JA, Won CH, Evans CL, Weng QY, Wang H, Osseiran S, Lovas A, Németh I, Cozzio A, Navarini AA, Hsiao JJ, Nguyen N, Kemény LV, Iliopoulos O, Berking C, Ruzicka T, Gonzalez-José R, Bortolini MC, **Canizales-Quinteros S**, Acuna-Alonso V, Gallo C, Poletti G, Bedoya G, Rothhammer F, Ito S, Schiaffino MV, Chao LH, Kleinstiver BP, Tishkoff S, Zon LI, Nijsten T, Ruiz-Linares A, Fisher DE, Roeder E. NNT mediates redox-dependent pigmentation via a UVB- and MITF-independent mechanism. *Cell.* 2021 Aug 5;184(16):4268-4283.e20. doi: 10.1016/j.cell.2021.06.022. Epub 2021 Jul 6. (F.I. 38.637)
113. Graham SE, Clarke SL, Wu KH, Kanoni S, Zajac GJM, Ramdas S, Surakka I, Ntalla I, Vedantam S, Winkler TW, Locke AE, Marouli E, Hwang MY, Han S, Narita A, Choudhury A, Bentley AR, Ekoru K, Verma A, Trivedi B, Martin HC, Hunt KA, Hui Q, Klarin D, Zhu X, Thorleifsson G, Helgadottir A, Gudbjartsson DF, Holm H, Olafsson I, Akiyama M, Sakaue S, Terao C, Kanai M, Zhou W, Brumpton BM, Rasheed H, Ruotsalainen SE, Havulinna AS, Veturi Y, Feng Q, Rosenthal EA, Lingren T, Pacheco JA, Pendergrass SA, Haessler J, Giulianini F, Bradford Y, Miller JE, Campbell A, Lin K, Millwood IY, Hindy G, Rasheed A, Faul JD, Zhao W, Weir DR, Turman C, Huang H, Graff M, Mahajan A, Brown MR, Zhang W, Yu K, Schmidt EM, Pandit A, Gustafsson S, Yin X, Luan J, Zhao JH, Matsuda F, Jang HM, Yoon K, Medina-Gomez C, Pitsillides A, Hottenga JJ, Willemsen G, Wood AR, Ji Y, Gao Z, Haworth S, Mitchell RE, Chai JF, Adahl M, Yao J, Manichaikul A, Warren HR, Ramirez J, Bork-Jensen J, Kårhus LL, Goel A, Sabater-Lleal M, Noordam R, Sidore C, Fiorillo E, McDaid AF, Marques-Vidal P, Wielscher M, Trompet S, Sattar N, Møllehave LT, Thuesen BH, Munz M, Zeng L, Huang J, Yang B, Poveda A, Kurbasic A, Lamina C, Forer L, Scholz M, Galesloot TE, Bradfield JP, Daw EW, Zmuda JM, Mitchell JS, Fuchsberger C, Christensen H, Brody JA, Feitosa MF, Wojczynski MK, Preuss M, Mangino M, Christofidou P, Verweij N, Benjamins JW, Engmann J, Kember RL, Slieker RC, Lo KS, Zilhao NR, Le P, Kleber ME, Delgado GE, Huo S, Ikeda DD, Iha H, Yang J, Liu J, Leonard HL, Marten J, Schmidt B, Arendt M, Smyth LJ, Cañadas-Garre M, Wang C, Nakatochi M, Wong A, Hutri-Kähönen N, Sim X, Xia R, Huerta-Chagoya A, **Fernandez-Lopez JC**, Lyssenko V, Ahmed M, Jackson AU, Irvin MR, Oldmeadow C, Kim HN, Ryu S, Timmers PRHJ, Arbeeve L, Dorajoo R, Lange LA, Chai X, Prasad G, Lorés-Motta L, Pauper M, Long J, Li X, Theusch E, Takeuchi F, Spracklen CN, Loukola A, Bollepalli S, Warner SC, Wang YX, Wei WB, Nutile T, Ruggiero D, Sung YJ, Hung YJ, Chen S, Liu F, Yang J, Kentistou KA, Gorski M, Brumat M, Meidtner K, Bielak LF, Smith JA, Hebbar P, Farmaki AE, Hofer E, Lin M, Xue C, Zhang J,

Concas MP, Vaccargiu S, van der Most PJ, Pitkänen N, Cade BE, Lee J, van der Laan SW, Chitrala KN, Weiss S, Zimmermann ME, Lee JY, Choi HS, Nethander M, Freitag-Wolf S, Southam L, Rayner NW, Wang CA, Lin SY, Wang JS, Couture C, Lyytikäinen LP, Nikus K, Cuellar-Partida G, Vestergaard H, Hildalgo B, Giannakopoulou O, Cai Q, Obura MO, van Setten J, Li X, Schwander K, Terzikhan N, Shin JH, Jackson RD, Reiner AP, Martin LW, Chen Z, Li L, Highland HM, Young KL, Kawaguchi T, Thiery J, Bis JC, Nadkarni GN, Launer LJ, Li H, Nalls MA, Raitakari OT, Ichihara S, Wild SH, Nelson CP, Campbell H, Jäger S, Nabika T, Al-Mulla F, Niinikoski H, Braund PS, Kolcic I, Kovacs P, Giardoglou T, Katsuya T, Bhatti KF, de Kleijn D, de Borst GJ, Kim EK, Adams HHH, Ikram MA, Zhu X, Asselbergs FW, Kraaijeveld AO, Beulens JWJ, Shu XO, Rallidis LS, Pedersen O, Hansen T, Mitchell P, Hewitt AW, Kähönen M, Pérusse L, Bouchard C, Tönjes A, Chen YI, Pennell CE, Mori TA, Lieb W, Franke A, Ohlsson C, Mellström D, Cho YS, Lee H, Yuan JM, Koh WP, Rhee SY, Woo JT, Heid IM, Stark KJ, Völzke H, Homuth G, Evans MK, Zonderman AB, Polasek O, Pasterkamp G, Hofer IE, Redline S, Pahkala K, Oldehinkel AJ, Snieder H, Biino G, Schmidt R, Schmidt H, Chen YE, Bandinelli S, Dedoussis G, Thanaraj TA, Kardia SLR, Kato N, Schulze MB, Girotto G, Jung B, Böger CA, Joshi PK, Bennett DA, De Jager PL, Lu X, Mamakou V, Brown M, Caulfield MJ, Munroe PB, Guo X, Ciullo M, Jonas JB, Samani NJ, Kaprio J, Pajukanta P, Adair LS, Bechayda SA, de Silva HJ, Wickremasinghe AR, Krauss RM, Wu JY, Zheng W, den Hollander AI, Bharadwaj D, Correa A, Wilson JG, Lind L, Heng CK, Nelson AE, Golightly YM, Wilson JF, Penninx B, Kim HL, Attia J, Scott RJ, Rao DC, Arnett DK, Walker M, Koistinen HA, Chandak GR, Yajnik CS, Mercader JM, Tusié-Luna T, Aguilar-Salinas CA, Villalpando CG, **Orozco L**, Fornage M, Tai ES, van Dam RM, Lehtimäki T, Chaturvedi N, Yokota M, Liu J, Reilly DF, McKnight AJ, Kee F, Jöckel KH, McCarthy MI, Palmer CNA, Vitart V, Hayward C, Simonsick E, van Duijn CM, Lu F, Qu J, Hishigaki H, Lin X, März W, Parra EJ, Cruz M, Gudnason V, Tardif JC, Lettre G, 't Hart LM, Elders PJM, Damrauer SM, Kumari M, Kivimäki M, van der Harst P, Spector TD, Loos RJF, Province MA, Psaty BM, Brandslund I, Pramstaller PP, Christensen K, Ripatti S, Widén E, Hakonarson H, Grant SFA, Kiemenev LALM, de Graaf J, Loeffler M, Kronenberg F, Gu D, Erdmann J, Schunkert H, Franks PW, Linneberg A, Jukema JW, Khera AV, Männikkö M, Jarvelin MR, Kutalik Z, Cucca F, Mook-Kanamori DO, van Dijk KW, Watkins H, Strachan DP, Grarup N, Sever P, Poulter N, Rotter JI, Dantoft TM, Karpe F, Neville MJ, Timpson NJ, Cheng CY, Wong TY, Khor CC, Sabanayagam C, Peters A, Gieger C, Hattersley AT, Pedersen NL, Magnusson PKE, Boomsma DI, de Geus EJC, Cupples LA, van Meurs BJ, Ghanbari M, Gordon-Larsen P, Huang W, Kim YJ, Tabara Y, Wareham NJ, Langenberg C, Zeggini E, Kuusisto J, Laakso M, Ingelsson E, Abecasis G, Chambers JC, Kooner JS, de Vries PS, Morrison AC, North KE, Daviglus M, Kraft P, Martin NG, Whitfield JB, Abbas S, Saleheen D, Walters RG, Holmes MV, Black C, Smith BH, Justice AE, Baras A, Buring JE, Ridker PM, Chasman DI, Kooperberg C, Wei WQ, Jarvik GP, Namjou B, Hayes MG, Ritchie MD, Jousilahti P, Salomaa V, Hveem K, Åsvold BO, Kubo M, Kamatani Y, Okada Y, Murakami Y, Thorsteinsdottir U, Stefansson K, Ho YL, Lynch JA, Rader DJ, Tsao PS, Chang KM, Cho K, O'Donnell CJ, Gaziano JM, Wilson P, Rotimi CN, Hazelhurst S, Ramsay M, Trembath RC, van Heel DA, Tamiya G, Yamamoto M, Kim BJ, Mohlke KL, Frayling TM, Hirschhorn JN, Kathiresan S; VA Million Veteran Program; Global Lipids Genetics Consortium*, Boehnke M, Natarajan P, Peloso GM, Brown CD, Morris AP, Assimes TL, Deloukas P, Sun YV, Willer CJ. The power of genetic diversity in genome-wide association studies of lipids. *Nature*. 2021 Dec;600(7890):675-679. doi:

10.1038/s41586-021-04064-3. Epub 2021 Dec 9. (F.I. 42.779)