



1. Productividad el NAB en el área de Salud Pública

Los miembros del NAB han participado activamente con el desarrollo y difusión de estudios dedicados al conocimiento y desarrollo de soluciones de enfermedades que afectan la salud Pública.

PRODUCTIVIDAD – SALUD PÚBLICA

DR JUAN CARLOS LÓPEZ ALVARENGA

Actividades académicas 2019-2020

A . Publicaciones:

1. Cadena J, Rathinavelu S, Lopez-Alvarenga JC, Restrepo BI. The re-emerging association between tuberculosis and diabetes: Lessons from past centuries. *Tuberculosis* (Edinb). 2019 May;116S:S89-S97. doi: 10.1016/j.tube.2019.04.015. PMID: 31085129
2. Pérez-García A, Arroyo-Valerio AG, Bustos-Esquivel MA, Quispe-Siccha RM, Zaldívar-Fujigaki JL, Pacheco-Yepez J, Kershenobich D, López-Alvarenga JC, Hernández-Ruiz J. Young adult binge drinkers have immunophenotypical disarrangements in peripheral natural killer cells. *Alcohol*. 2019 Dec; 81: 70-78. doi: 10.1016/j.alcohol.2019.06.004. PMID: 31265902
3. Villanueva-Ortega E, Garcés-Hernández MJ, Herrera-Rosas A, López-Alvarenga JC, Laresgoiti-Servitje E, Escobedo G, Queipo G, Cuevas-Covarrubias S, Garibay-Nieto GN. Gender-specific differences in clinical and metabolic variables associated with NAFLD in a Mexican pediatric population. *Ann Hepatol*. 2019 May 22. pii: S1665-2681(19)30341-2. doi: 10.1016/j.aohep.2019.04.012. PMID: 31151875
4. Cadena J, Rathinavelu S, Lopez-Alvarenga JC, Restrepo BI. The Re-Emerging Association Between Tuberculosis and Diabetes: Lessons From Past Centuries. *Tuberculosis* (Edinb) 2019 May;116S:S89-S97. doi: 10.1016/j.tube.2019.04.015. Epub 2019 May 3. PMID: 31085129
5. Díaz-Badillo A, Muñoz ML, Morales-Gómez MC, Martínez-Ezquerro JD, Quispe-Siccha RM, López-Alvarenga JC. Diagnostic tests for COVID-19 detection: A hybrid methodology. *Cir Cir*. 2020;88(5):537-541. doi: 10.24875/CIRU.M20000068. PMID: 33064682
6. Díaz-Badillo Á, Ramírez-Pfeiffer C, López-Alvarenga JC. Social networks, machine learning and cladistics in the time of COVID-19. *Cir Cir*. 2020;88(4):395-398. doi: 10.24875/CIRU.M20000065. PMID: 32567584
7. Lopez-Alvarenga JC, Chittoor G, Paul SFD, Puppala S, Farook VS, Fowler SP, Resendez RG, Hernandez-Ruiz J, Diaz-Badillo A, Salazar D, Garza DD, Lehman DM, Mummidi S, Arya R, Jenkinson CP, Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R. Acanthosis nigricans as a composite marker of cardiometabolic risk and its complex association with obesity and insulin resistance in Mexican American children. *PLoS One*. 2020 Oct 15;15(10):e0240467. doi: 10.1371/journal.pone.0240467. eCollection 2020.



- PMID: 33057385
8. Pérez-Navarro LM, Valdez-Ortiz R, Alegría-Díaz A, Murguía-Romero M, Jiménez-Flores R, Villalobos-Molina R, Mummidi S, Duggirala R, López-Alvarenga JC. Cardiometabolic Risk Factors Associated with Renal Function in Apparently Healthy Young Students: A Cross-Sectional Study. *Clinical and Translational Investigation* 2020;72(2):95-102. doi: 10.24875/RIC.19003204. PMID: 32284621
 9. Ramirez V, Montañó FA, Bautista RJ, Mummidi S, Alvarenga JC, Bautista CJ. Lactation Plays a Fundamental Role in Developmental Programming. *Endocr Metab Immune Disord Drug Targets*. 2020 Dec 9. doi: 10.2174/1871530320999201209223341. Online ahead of print. PMID: 33302843
 10. Rodríguez-Ayala E, Gallegos-Cabrales ES, Gonzalez-Lopez L, Laviada-Molina H, Salinas-Osornio RA, [...] , Lopez-Alvarenga JC, Comuzzie AG, Haack K, Han X, Orozco L, Weintraub S, Kent J, Cole SA, Bastarrachea RA. Towards precision medicine: defining and characterizing adipose tissue dysfunction to identify early immunometabolic risk in symptom-free adults from the GEMM family study. *Adipocyte*. 2020 Dec;9(1):153-169. doi: 10.1080/21623945.2020.1743116. PMID: 32272872
 11. Síntevi G, Martínez-Ezquerro JD, Ruiz-Cejudo SM, Bustamante-Fuentes A, Díaz-Badillo Á, García-Oropesa EM, López-Sosa EB, Martínez-López YE, Moctezuma-Chávez ÓO, Nava-González EJ, Perales-Torres AL, Pérez-Navarro LM, Rosas-Díaz M, López-Alvarenga JC. Expert consensus in times of COVID-19: health applications of the Delphi method [Consenso experto en tiempos de COVID-19: aplicaciones del método Delphi en materia de salud]. *Cir Cir*. 2020 Dec 9. doi: 10.24875/CIRU.20000936. Online ahead of print. PMID: 33296912
 12. Schmulson M, Chiu-Ugalde J, Sáez-Ríos A, López-Colombo A, Mateos-Pérez GJ, Remes-Troche JM, Sobrino-Cossio S, Soto-Pérez JC, Tamayo de la Cuesta JL, Teramoto-Matsubara OT, López-Alvarenga JC. Efficacy of the Combination of Pinaverium Bromide 100 mg Plus Simethicone 300 mg in Abdominal Pain and Bloating in Irritable Bowel Syndrome: A Randomized, Placebo-controlled Trial. *J Clin Gastroenterol*. 2020 Apr;54(4):e30-e39. doi: 10.1097/MCG.0000000000001242. PMID: 31385885
 13. Gil M, Alliey-Rodriguez N, Lopez-Alvarenga JC, Diego V, Gaona CA, Mata L, Pirela RV, Chavez CA, de Erausquin GA, Melgarejo JD, Maestre GE. Neuropsychiatric Symptoms Among Hispanics: Results of the Maracaibo Aging Study. *J Alzheimers Dis*. 2021 Feb 19. doi: 10.3233/JAD-201144. Online ahead of print. PMID: 33612541
 14. Morales LD, Cromack DT, Tripathy D, Fourcaudot M, Kumar S, Curran JE, Carless M, Göring HHH, Hu SL, Lopez-Alvarenga JC, Garske KM, Pajukanta P, Small KS, Glastonbury CA, Das SK, Langefeld C, Hanson RL, Hsueh WC, Norton L, Arya R, Mummidi S, Blangero J, DeFronzo RA, Duggirala R, Jenkinson CP. Further evidence supporting a potential role for ADH1B in obesity. *Sci Rep*. 2021 Jan 21;11(1):1932. doi: 10.1038/s41598-020-80563-z. PMID: 33479282
 15. Mummidi S, Farook VS, Reddivari L, Hernandez-Ruiz J, Diaz-Badillo A, Fowler SP, Resendez RG, Akhtar F, Lehman DM, Jenkinson CP, Arya R, Lynch JL, Canas JA, DeFronzo RA, Hale DE, Blangero J, Lopez-Alvarenga JC,



Duggirala R, Vanamala JKP. Serum carotenoids and Pediatric Metabolic Index predict insulin sensitivity in Mexican American children. *Sci Rep.* 2021 Jan 13;11(1):871. doi: 10.1038/s41598-020-79387-8. PMID: 33441626

B . Conferencias:

- 1) Chronic Diseases in Young University Students. First Regional Congress of Research in Public Health UMAN. November 19, 2019. Reynosa, Tamaulipas.
- 2) Leptin to adiponectin ratio. 13th International Course on Obesity in Spanish. Miami Florida. December 8, 2019.
- 3) Hypoxia, angiogenesis, fat expansion, dysfunctional adipose tissue and gut microbiome. 13th International Course on Obesity in Spanish. Miami Florida. December 8, 2019.
- 4) Can Alzheimer's be considered type 3 diabetes? Extent of obesity in demential disease. 13th International Course on Obesity in Spanish. Miami Florida. December 11, 2019.
- 5) Expansión de tejido adiposo. 2do Congreso Internacional de Obesidad y Metabolismo del Tejido Adiposo, Monterrey, Nuevo León. 8 de Septiembre del 2018.
- 6) Vascular Dementia Research (VADER): Pilot Project at Rio Grande Valley. RCMAR Annual Investigators Meeting. June 20-21, 2019. Los Angeles California.
- 7) NAFLD & NASH: A Prelude to Cirrhosis. International Symposium on Diabetes and Cardiometabolic disease. [DeFronzo] December 13-15, 2019. San Antonio, Texas.
- 8) Metabolomics of obesity. International meeting of the Mexican Society of Nutrition and Endocrinology. February 21-22, 2020. Mexico City.
- 9) Metabolomic signatures in Obesity. International meeting of the Mexican Society of Nutrition and Endocrinology. February 21-22, 2020. Mexico City.
- 10) Common inflammatory and metabolic pathways of insulin resistance. Inflammatory response of Type 2 diabetes in presence of COVID-19. International Webinar on Immuno-metabolism and the COVID-19 pandemic. September 11-16, 2020. San Antonio, Texas.
- 11) Genomic modifications of the SARS-CoV-2 virus: Is it the same virus in China and Latin America?. International Webinar on Immunometabolism and the COVID-19 pandemic. September 11-16, 2020. San Antonio, Texas.
- 12) Metabolomics of the COVID-19 infected patient: differences with H1N1 infection. International Webinar on Immuno-metabolism and the COVID-19 pandemic. September 11-16, 2020. San Antonio, Texas.
- 13) Immune response of Type 2 diabetes in the presence of COVID-19. LX International meeting of the Mexican Society of Nutrition and Endocrinology.

November 17-21, 2020. Merida Yucatan.

C . Revision editorial de:

1. American Journal of Primatology
2. Cirugia y Cirujanos (Official Journal of the National Academy of Surgery, Mexico)
3. European Journal of Physical Anthropology
4. Gaceta Médica de Mexico
5. Human Biology



6. International Journal of Sports Medicine
7. International Journal of Obesity
8. Journal of Diabetes and Its Complications
9. Metabolism
10. Nutrition and Metabolism
11. Obesity
12. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery
13. Revista de Endocrinología y Nutrición (Mexico)
14. Revista de Gastroenterología (México).
15. Neurogastroenterology
16. British Medical Journal.
17. Clinical and Translational Investigation (Revista de Investigacion Clinica).
18. PeerJournal.
19. PlosOne.
20. Sultan Qaboos University Medical Journal.

D . Miembro de comité editorial de:

1. Associated Editor and Statistical advisor of Clinical and Translational Investigation. This is the official scientific journal of the National Health Institutes in Mexico.
2. Associated Editor of Cirugia y Cirujanos. This is the official journal of the National Academy of Surgery in Mexico.

E . Entrenamiento para profesores universitarios:

2019 (Feb-May) Entrenamiento básico para investigación y estadística médica. Departamento de Investigación de la Universidad México Americana del Norte y Universidad Autónoma de Tamaulipas. Con participación de profesores de dos hospitales (Hospital General de México e IMSS Siglo XXI) y cinco universidades (UNAM, Universidad de Querétaro, Universidad de Texas UTRGV, Instituto Politécnico Nacional, y Universidad Autónoma Tamaulipas, campus Matamoros).

2019 (Aug-Nov) Entrenamiento Avanzado en investigación y estadística multivariada. Departamento de Investigación de la Universidad México Americana del Norte y Universidad Autónoma de Tamaulipas. Con participación de profesores de dos hospitales (Hospital General de México e IMSS Siglo XXI) y cinco universidades (UNAM, Universidad de Querétaro, Universidad de Texas UTRGV, Instituto Politécnico Nacional, y Universidad Autónoma Tamaulipas, campus Matamoros).

2020 (Oct) Introducción a revisión sistemática y metaanálisis. Con UTRGV, campus Edimburgo. Participación de UTRGV de 5 facultades y de Hospital General de México e IMSS Siglo XXI