

## UTRGV SOM Publications 2021

1. **Valdez, A.**, Forrest, L., **Jimenez, A.** and Pham, K. T. (2021). How Should Medical Schools Foster Equity and Inclusion in Admissions? *AMA Journal of Ethics* 23(12): E926-930. doi: 10.1001/amajethics.2021.926. **Department of Family and Preventive Medicine.**
2. Aguillon-Duran, G. P., Prieto-Martinez, E., Ayala, D., Jr, J. G., **Thomas, J. M.**, Garcia, J. I., Henry, B. M., Torrelles, J. B., Turner, J., Ledezma-Campos, E. and **Restrepo, B. I.** (2021). Covid-19 and Chronic Diabetes: The Perfect Storm for Reactivation Tuberculosis?: A Case Series. *Journal of Medical Case Reports* 15(1): 5. doi: 10.1186/s13256-021-03193-7. **Human Genetics.**
3. Aroor, A. R., **Mummidi, S.**, **Lopez-Alvarenga, J. C.**, Das, N., Habibi, J., Jia, G. H., Lastra, G., Chandrasekar, B. and DeMarco, V. G. (2021). Sacubitril/Valsartan Inhibits Obesity-Associated Diastolic Dysfunction through Suppression of Ventricular-Vascular Stiffness. *Cardiovascular Diabetology* 20(1): 18. doi: 10.1186/s12933-021-01270-1. **Human Genetics.**
4. **Blackburn, N. B.**, **Leandro, A. C.**, Nahvi, N., Devlin, M. A., **Leandro, M.**, **Escobedo, I. M.**, **Peralta, J. M.**, George, J., Stacy, B. A., deMaar, T. W., **Blangero, J.**, Keniry, M. and **Curran, J. E.** (2021). Transcriptomic Profiling of Fibropapillomatosis in Green Sea Turtles (*Chelonia Mydas*) from South Texas. *Frontiers in Immunology* 12: 16. doi: 10.3389/fimmu.2021.630988. **Human Genetics.**
5. **Blackburn, N. B.**, Meikle, P. J., **Peralta, J. M.**, **Kumar, S.**, **Leandro, A. C.**, Bellinger, M. A., Giles, C., Huynh, K., **Mahaney, M. C.**, **Göring, H. H. H.**, **VandeBerg, J. L.**, **Williams-Blangero, S.**, Glahn, D. C., **Duggirala, R.**, **Blangero, J.**, Michael, L. F. and **Curran, J. E.** (2021). Identifying the Lipidomic Effects of a Rare Loss-of-Function Deletion in Angptl3. *Circulation. Genomic and Precision Medicine*. 14(3): e003232. doi: 10.1161/circgen.120.003232. PMC8206021. **Human Genetics.**
6. **Blondell, L.**, **Kos, M. Z.**, **Blangero, J.** and **Goring, H. H. H.** (2021). Genz and Mendell-Elston Estimation of the High-Dimensional Multivariate Normal Distribution. *Algorithms* 14(10): 12. doi: 10.3390/a14100296. **Human Genetics.**
7. Curry, J. S., Abdelbary, B., Garcia-Viveros, M., Garcia, J. I., Yotebieng, M., Rendon, A., Torrelles, J. B. and **Restrepo, B. I.** (2021). South to North Migration Patterns of Tuberculosis Patients Diagnosed in the Mexican Border with Texas. *Journal of Immigrant and Minority Health*: 9. doi: 10.1007/s10903-021-01294-5. **Human Genetics.**
8. **Diaz-Badillo, A.**, Garibay-Nieto, G. N., Navas-Figueroa, A. L., Perales-Torres, A. L., Morales-Gomez, M. C. and **Lopez-Alvarenga, J. C.** (2021). Vaccination in the Context of the Covid-19 Pandemic. *Cirugía y Cirujanos* 89(6): 836-843. doi: 10.24875/ciru.21000487. **Human Genetics.**
9. Gao, S., Donohue, B., Hatch, K. S., Chen, S., Ma, T., Ma, Y., Kvarta, M. D., Bruce, H., Adhikari, B. M., Jahanshad, N., Thompson, P. M., **Blangero, J.**, Hong, L. E., Medland, S. E., Ganjgahi, H., Nichols, T. E. and Kochunov, P. (2021). Comparing Empirical Kinship Derived Heritability for Imaging Genetics Traits in the Uk Biobank and Human Connectome Project. *Neuroimage* 245: 118700. doi: 10.1016/j.neuroimage.2021.118700. PMC8771206. **Human Genetics.**
10. Garcia, J. I., Allue-Guardia, A., Tampi, R. P., **Restrepo, B. I.** and Torrelles, J. B. (2021). New Developments and Insights in the Improvement of Mycobacterium Tuberculosis Vaccines and

Diagnostics within the End Tb Strategy. *Current Epidemiology Reports* 8(2): 33-45. doi: 10.1007/s40471-021-00269-2. **Human Genetics.**

11. Garcia-Oropesa, E. M., Martinez-Lopez, Y. E., Ruiz-Cejudo, S. M., Martinez-Ezquerro, J. D., **Diaz-Badillo, A.**, Ramirez-Pfeiffer, C., Bustamante-Fuentes, A., Lopez-Sosa, E. B., Moctezuma-Chavez, O. O., Nava-Gonzalez, E. J., Perales-Torres, A. L., Perez-Navarro, L. M., Rosas-Diaz, M., **Carter, K., Tapia, B.** and **Lopez-Alvarenga, J. C.** (2021). Looking for Crumbs in the Obesity Forest: Anti-Obesity Interventions and Obesity-Associated Cardiometabolic Traits in the Mexican Population. History and Systematic Review with Meta-Analyses. *Frontiers in Medicine* 8: 28. doi: 10.3389/fmed.2021.665023. **Human Genetics.**

12. Goodrich, J. K., Singer-Berk, M., Son, R., Sveden, A., Wood, J., England, E., Cole, J. B., Weisburd, B., Watts, N., Caulkins, L., Dornbos, P., Koesterer, R., Zappala, Z., Zhang, H. C., Maloney, K. A., Dahl, A., Aguilar-Salinas, C. A., Atzmon, G., Barajas-Olmos, F., Barzilai, N., Blangero, J., Boerwinkle, E., Bonnycastle, L. L., Bottinger, E., Bowden, D. W., Centeno-Cruz, F., Chambers, J. C., Chami, N., Chan, E., Chan, J., Cheng, C. Y., Cho, Y. S., Contreras-Cubas, C., Cordova, E., Correa, A., DeFronzo, R. A., **Duggirala, R.**, Dupuis, J., Garay-Sevilla, M. E., Garcia-Ortiz, H., Gieger, C., Glaser, B., Gonzalez-Villalpando, C., Gonzalez, M. E., Grarup, N., Groop, L., Gross, M., Haiman, C., Han, S., Hanis, C. L., Hansen, T., Heard-Costa, N. L., Henderson, B. E., Hernandez, J. M. M., Hwang, M. Y., Islas-Andrade, S., Jorgensen, M. E., Kang, H. M., Kim, B. J., Kim, Y. J., Koistinen, H. A., Kooner, J. S., Kuusisto, J., Kwak, S. H., Laakso, M., Lange, L., Lee, J. Y., Lee, J., Lehman, D. M., Linneberg, A., Liu, J. J., Loos, R. J. F., Lyssenko, V., Ma, R. C. W., Martinez-Hernandez, A., Meigs, J. B., Meitinger, T., Mendoza-Caamal, E., Mohlke, K. L., Morris, A. D., Morrison, A. C., Ng, M. C. Y., Nilsson, P. M., O'Donnell, C. J., Orozco, L., Palmer, C. N. A., Park, K. S., Post, W. S., Pedersen, O., Preuss, M., Psaty, B. M., Reiner, A. P., Revilla-Monsalve, C., Rich, S. S., Rotter, J. I., Saleheen, D., Schurmann, C., Sim, X. L., Sladek, R., Small, K. S., So, W. Y., Spector, T. D., Strauch, K., Strom, T. M., Tai, E. S., Tam, C. H. T., Teo, Y. Y., Thameem, F., Tomlinson, B., Tracy, R. P., Tuomi, T., Tuomilehto, J., Tusie-Luna, T., van Dam, R. M., Vasani, R. S., Wilson, J. G., Witte, D. R., Wong, T. Y., Burt, N. P., Zaitlen, N., McCarthy, M. I., Boehnke, M., Pollin, T. I., Flannick, J., Mercader, J. M., O'Donnell-Luria, A., Baxter, S., Florez, J. C., MacArthur, D. G., Udler, M. S. and Consortium, A.-T. D. G. (2021). Determinants of Penetrance and Variable Expressivity in Monogenic Metabolic Conditions across 77,184 Exomes. *Nature Communications* 12(1): 15. doi: 10.1038/s41467-021-23556-4. **Human Genetics.**

13. Goyal, S., Tanigawa, Y., Zhang, W. H., Chai, J. F., **Almeida, M.**, Sim, X. L., Lerner, M., Chainakul, J., Ramiu, J. G., Seraphin, C., Apple, B., Vaughan, A., Muniu, J., **Peralta, J.**, Lehman, D. M., Ralhan, S., Wander, G. S., Singh, J. R., Mehra, N. K., Sidorov, E., Peyton, M. D., Blackett, P. R., **Curran, J. E.**, Tai, E. S., van Dam, R., Cheng, C. Y., **Duggirala, R.**, **Blangero, J.**, Chambers, J. C., Sabanayagam, C., Kooner, J. S., Rivas, M. A., Aston, C. E. and Sanghera, D. K. (2021). Apoc3 Genetic Variation, Serum Triglycerides, and Risk of Coronary Artery Disease in Asian Indians, Europeans, and Other Ethnic Groups. *Lipids in Health and Disease* 20(1): 14. doi: 10.1186/s12944-021-01531-8. **Human Genetics.**

14. He, S., Ryu, J., Liu, J., Luo, H., Lv, Y., Langlais, P. R., Wen, J., Dong, F., Sun, Z., Xia, W., Lynch, J. L., **Duggirala, R.**, Nicholson, B. J., Zang, M., Shi, Y., Zhang, F., Liu, F., Bai, J. and Dong, L. Q. (2021). Lrg1 Is an Adipokine That Mediates Obesity-Induced Hepatosteatosis and Insulin Resistance. *Journal of Clinical Investigation* 131(24). doi: 10.1172/jci148545. PMC8670837. **Human Genetics.**

15. Hou, R. X., Cole, S. A., Graff, M., Wang, Y. J., Haack, K., **Laston, S.**, Mehta, N. R., Shypailo, R. J., Gourlay, M. L., Comuzzie, A. G., North, K. E., Butte, N. F. and Voruganti, V. S. (2021). Genetic Variants

and Physical Activity Interact to Affect Bone Density in Hispanic Children. *BMC Pediatrics* 21(1): 8. doi: 10.1186/s12887-021-02537-y. **Human Genetics.**

16. Hu, Y., Stilp, A. M., McHugh, C. P., Rao, S. Q., Jain, D., Zheng, X. W., Lane, J., de Bellefon, S. M., Raffield, L. M., Chen, M. H., Yanek, L. R., Wheeler, M., Yao, Y., Ren, C. Y., Broome, J., Moon, J. Y., de Vries, P. S., Hobbs, B. D., Sun, Q., Surendran, P., Brody, J. A., Blackwell, T. W., Choquet, H., Ryan, K., **Duggirala, R.**, Heard-Costa, N., Wang, Z., Chami, N., Preuss, M. H., Min, N., Ekunwe, L., Lange, L. A., Cushman, M., Faraday, N., **Curran, J. E.**, Almasy, L., Kundu, K., Smith, A. V., Gabriel, S., Rotter, J. I., Fornage, M., Lloyd-Jones, D. M., Vasan, R. S., Smith, N. L., North, K. E., Boerwinkle, E., Becker, L. C., Lewis, J. P., Abecasis, G. R., Hou, L. F., O'Connell, J. R., Morrison, A. C., Beaty, T. H., Kaplan, R., Correa, A., **Blangero, J.**, Jorgenson, E., Psaty, B. M., Kooperberg, C., Walton, R. T., Kleinstiver, B. P., Tang, H., Loos, R. J. F., Soranzo, N., Butterworth, A. S., Nickerson, D., Rich, S. S., Mitchell, B. D., Johnson, A. D., Auer, P. L., Li, Y., Mathias, R. A., Lettre, G., Pankratz, N., Laurie, C. C., Laurie, C. A., Bauer, D. E., Conomos, M. P., Reiner, A. P. and TO, N. T.-O. P. M. (2021). Whole-Genome Sequencing Association Analysis of Quantitative Red Blood Cell Phenotypes: The Nhlbi Topmed Program. *American Journal of Human Genetics* 108(5): 874-893. doi: 10.1016/j.ajhg.2021.04.003. **Human Genetics.**

17. Knowles, E. E. M., **Peralta, J. M.**, Almasy, L., Nimgaonkar, V., McMahon, F. J., McIntosh, A. M., Thomson, P., Mathias, S. R., Gur, R. C., **Curran, J. E.**, Raventos, H., Contreras, J., Jablensky, A., Badcock, J., **Blangero, J.**, Gur, R. E. and Glahn, D. C. (2021). Genetic Overlap Profiles of Cognitive Ability in Psychotic and Affective Illnesses: A Multisite Study of Multiplex Pedigrees. *Biological Psychiatry* 90(6): 373-384. doi: 10.1016/j.biopsych.2021.03.012. **Human Genetics.**

18. Kochunov, P., Zavaliangos-Petropulu, A., Jahanshad, N., Thompson, P. M., Ryan, M. C., Chiappelli, J., Chen, S., Du, X. M., Hatch, K., Adhikari, B., Sampath, H., Hare, S., Kvarita, M., Goldwaser, E., Yang, F. D., Olvera, R. L., Fox, P. T., **Curran, J. E.**, **Blangero, J.**, Glahn, D. C., Tan, Y. L. and Hong, L. E. (2021). A White Matter Connection of Schizophrenia and Alzheimer's Disease. *Schizophrenia Bulletin* 47(1): 197-206. doi: 10.1093/schbul/sbaa078. **Human Genetics.**

19. Koenis, M. M. G., Durnez, J., Rodrigue, A. L., Mathias, S. R., Alexander-Bloch, A. F., Barrett, J. A., Doucet, G. E., Frangou, S., Knowles, E. E. M., Mollon, J., Denbow, D., Aberizk, K., Zatony, M., Janssen, R. J., **Curran, J. E.**, **Blangero, J.**, Poldrack, R. A., Pearlson, G. D. and Glahn, D. C. (2021). Associations of Cannabis Use Disorder with Cognition, Brain Structure, and Brain Function in African Americans. *Human Brain Mapping* 42(6): 1727-1741. doi: 10.1002/hbm.25324. PMC7978126. **Human Genetics.**

20. **Kos, M. Z.**, Carless, M. A., **Blondell, L.**, Leland, M. M., Knape, K. D., **Goring, H. H. H.** and Szabo, C. A. (2021). Whole Genome Sequence Data from Captive Baboons Implicate Rbfox1 in Epileptic Seizure Risk. *Frontiers in Genetics* 12: 10. doi: 10.3389/fgene.2021.714282. **Human Genetics.**

21. Kotkowski, E., Price, L. R., Blevins, C. J., Franklin, C. G., Woolsey, M. D., DeFronzo, R. A., **Blangero, J.**, **Duggirala, R.**, Glahn, D. C., Schmahmann, J. D. and Fox, P. T. (2021). Using the Schmahmann Syndrome Scale to Assess Cognitive Impairment in Young Adults with Metabolic Syndrome: A Hypothesis-Generating Report. *Cerebellum* 20(2): 295-299. doi: 10.1007/s12311-020-01212-9. PMC8005432. **Human Genetics.**

22. **Kumar, S.**, **Curran, J. E.**, **Kumar, K.**, **DeLeon, E.**, **Leandro, A. C.**, **Peralta, J.**, **Williams-Blangero, S.** and **Blangero, J.** (2021). Disease Modeling and Disease Gene Discovery in Cardiomyopathies: A Molecular

Study of Induced Pluripotent Stem Cell Generated Cardiomyocytes. *International Journal of Molecular Sciences* 22(7): 19. doi: 10.3390/ijms22073311. **Human Genetics.**

23. **Kumar, S., Curran, J. E., Williams-Blangero, S. and Blangero, J.** (2021). Efficient Generation of Functional Hepatocytes from Human Induced Pluripotent Stem Cells for Disease Modeling and Disease Gene Discovery. *Methods in Molecular Biology* doi: 10.1007/7651\_2021\_375. **Human Genetics.**

24. Kwong, A. M., Blackwell, T. W., LeFaive, J., de Andrade, M., Barnard, J., Barnes, K. C., **Blangero, J.**, Boerwinkle, E., Burchard, E. G., Cade, B. E., Chasman, D. I., Chen, H., Conomos, M. P., Cupples, L. A., Ellinor, P. T., Eng, C., Gao, Y., Guo, X. Q., Irvin, M. R., Kelly, T. N., Kim, W., Kooperberg, C., Lubitz, S. A., Mak, A. C. Y., Manichaikul, A. W., Mathias, R. A., Montasser, M. E., Montgomery, C. G., Musani, S., Palmer, N. D., Peloso, G. M., Qiao, D. D., Reiner, A. P., Roden, D. M., Shoemaker, M. B., Smith, J. A., Smith, N. L., Su, J. L., Tiwari, H. K., Weeks, D. E., Weiss, S. T., Scott, L. J., Smith, A. V., Abecasis, G. R., Boehnke, M., Kang, H. M., TO, N. T.-O. P. M. and Grp, T. O. A. W. (2021). Robust, Flexible, and Scalable Tests for Hardy-Weinberg Equilibrium across Diverse Ancestries. *Genetics* 218(1): 13. doi: 10.1093/genetics/iyab044. **Human Genetics.**

25. **Lopez-Alvarenga, J. C.**, Martinez, D. A., **Diaz-Badillo, A., Morales, L. D., Arya, R., Jenkinson, C. P., Curran, J. E.**, Lehman, D. M., **Blangero, J., Duggirala, R., Mummidi, S.** and Martinez, R. D. (2021). Association of Hiv-1 Infection and Antiretroviral Therapy with Type 2 Diabetes in the Hispanic Population of the Rio Grande Valley, Texas, USA. *Frontiers in Medicine* 8: 13. doi: 10.3389/fmed.2021.676979. **Human Genetics.**

26. **Manusov, E. G., Campuzano, A. M., Ahmed, O., Macias, S., de Ziegler, C. G. and Monaco, G. M.** (2021). Case Report: Neurologic Presentation of West Nile Virus: Difficult Diagnosis. *Frontiers in Public Health* 9: 6. doi: 10.3389/fpubh.2021.628799. **Human Genetics.**

27. **Manusov, E. G., De Ziegler, C. G., Diego, V. P., Munoz-Monaco, G. and Williams-Blangero, S.** (2021). Frailty Index in the Colonias on the Us-Mexico Border: A Special Report. *Frontiers in Medicine* 8: 8. doi: 10.3389/fmed.2021.650259. **Human Genetics.**

28. Mikhaylova, A. V., McHugh, C. P., Polfus, L. M., Raffield, L. M., Boorgula, M. P., Blackwell, T. W., Brody, J. A., Broome, J., Chami, N., Chen, M. H., Conomos, M. P., Cox, C., **Curran, J. E.**, Daya, M., Ekunwe, L., Glahn, D. C., Heard-Costa, N., Highland, H. M., Hobbs, B. D., Ilboudo, Y., Jain, D., Lange, L. A., Miller-Fleming, T. W., Min, N., Moon, J. Y., Preuss, M. H., Rosen, J., Ryan, K., Smith, A. V., Sun, Q., Surendran, P., de Vries, P. S., Walter, K., Wang, Z., Wheeler, M., Yanek, L. R., Zhong, X., Abecasis, G. R., Almasy, L., Barnes, K. C., Beaty, T. H., Becker, L. C., **Blangero, J.**, Boerwinkle, E., Butterworth, A. S., Chavan, S., Cho, M. H., Choquet, H., Correa, A., Cox, N., DeMeo, D. L., Faraday, N., Fornage, M., Gerszten, R. E., Hou, L. F., Johnson, A. D., Jorgenson, E., Kaplan, R., Kooperberg, C., Kundu, K., Laurie, C. A., Lettre, G., Lewis, J. P., Li, B. S., Li, Y., Lloyd-Jones, D. M., Loos, R. J. F., Manichaikul, A., Meyers, D. A., Mitchell, B. D., Morrison, A. C., Ngo, D., Nickerson, D. A., Nongmaithem, S., North, K. E., O'Connell, J. R., Ortega, V. E., Pankratz, N., Perry, J. A., Psaty, B. M., Rich, S. S., Soranzo, N., Rotter, J. I., Silverman, E. K., Smith, N. L., Tang, H., Tracy, R. P., Thornton, T. A., Vasan, R. S., Zein, J., Mathias, R. A., Reiner, A. P., Auer, P. L. and TO, N. T.-O. P. M. (2021). Whole-Genome Sequencing in Diverse Subjects Identifies Genetic Correlates of Leukocyte Traits: The NHLBI TOPMed Program. *American Journal of Human Genetics* 108(10): 1836-1851. doi: 10.1016/j.ajhg.2021.08.007. **Human Genetics.**

29. Mollon, J., Knowles, E. E. M., Mathias, S. R., Gur, R., **Peralta, J. M.**, Weiner, D. J., Robinson, E. B., Gur, R. E., **Blangero, J.**, Almasy, L. and Glahn, D. C. (2021). Genetic Influence on Cognitive Development between Childhood and Adulthood. *Molecular Psychiatry* 26(2): 656-665. doi: 10.1038/s41380-018-0277-0. **Human Genetics.**
30. Mollon, J., Knowles, E. E. M., Mathias, S. R., Rodrigue, A., Moore, T. M., Calkins, M. E., Gur, R. C., **Peralta, J. M.**, Weiner, D. J., Robinson, E. B., Gur, R. E., **Blangero, J.**, Almasy, L. and Glahn, D. C. (2021). Genetic Influences on Externalizing Psychopathology Overlap with Cognitive Functioning and Show Developmental Variation. *European Psychiatry* 64(1): 9. doi: 10.1192/j.eurpsy.2021.21. **Human Genetics.**
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