

## SOM Faculty/Staff Publications 2020

1. Murphy, K.R. and **J. Solis**. A New Era in Asthma Management: Assessment of Asthma Control. *Journal of Family Practice*. Sep 2020;69(7 Suppl):S14-S20. doi:10.12788/jfp.0061. **Family Medicine**.
2. Alexander-Bloch, A.F., A. Raznahan, S.N. Vandekar, J. Seidlitz, Z. Lu, S.R. Mathias, E. Knowles, J. Mollon, A. Rodrigue, **J.E. Curran**, **H.H.H. Goring**, T.D. Satterthwaite, R.E. Gur, D.S. Bassett, G.D. Hoftman, G. Pearlson, R.T. Shinohara, S. Liu, P.T. Fox, L. Almasy, **J. Blangero**, and D.C. Glahn. Imaging Local Genetic Influences on Cortical Folding. *Proceedings of the National Academy of Sciences of the United States of America*. Mar 31 2020;117(13):7430-7436. doi:10.1073/pnas.1912064117. **Human Genetics**.
3. Bick, A.G., J.S. Weinstock, S.K. Nandakumar, C.P. Fulco, E.L. Bao, S.M. Zekavat, M.D. Szeto, X. Liao, M.J. Leventhal, J. Nasser, K. Chang, C. Laurie, B.B. Burugula, C.J. Gibson, A.E. Lin, M.A. Taub, F. Aguet, K. Ardlie, B.D. Mitchell, K.C. Barnes, A. Moscati, M. Fornage, S. Redline, B.M. Psaty, E.K. Silverman, S.T. Weiss, N.D. Palmer, R.S. Vasan, E.G. Burchard, S.L.R. Kardia, J. He, R.C. Kaplan, N.L. Smith, D.K. Arnett, D.A. Schwartz, A. Correa, M. de Andrade, X. Guo, B.A. Konkle, B. Custer, **J.M. Peralta**, H. Gui, D.A. Meyers, S.T. McGarvey, I.Y. Chen, M.B. Shoemaker, P.A. Peyser, J.G. Broome, S.M. Gogarten, F.F. Wang, Q. Wong, M.E. Montasser, M. Daya, E.E. Kenny, K.E. North, L.J. Launer, B.E. Cade, J.C. Bis, M.H. Cho, J. Lasky-Su, D.W. Bowden, L.A. Cupples, A.C.Y. Mak, L.C. Becker, J.A. Smith, T.N. Kelly, S. Aslibekyan, S.R. Heckbert, H.K. Tiwari, I.V. Yang, J.A. Heit, S.A. Lubitz, J.M. Johnsen, **J.E. Curran**, S.E. Wenzel, D.E. Weeks, D.C. Rao, D. Darbar, J.Y. Moon, R.P. Tracy, E.J. Buth, N. Rafaels, R.J.F. Loos, P. Durda, Y. Liu, L. Hou, J. Lee, P. Kachroo, B.I. Freedman, D. Levy, L.F. Bielak, J.E. Hixson, J.S. Floyd, E.A. Whitsel, P.T. Ellinor, M.R. Irvin, T.E. Fingerlin, L.M. Raffield, S.M. Armasu, M.M. Wheeler, E.C. Sabino, **J. Blangero**, L.K. Williams, B.D. Levy, W.H. Sheu, D.M. Roden, E. Boerwinkle, J.E. Manson, R.A. Mathias, P. Desai, K.D. Taylor, A.D. Johnson, N.T.-O.f.P.M. Consortium, P.L. Auer, C. Kooperberg, C.C. Laurie, T.W. Blackwell, A.V. Smith, H. Zhao, E. Lange, L. Lange, S.S. Rich, J.I. Rotter, J.G. Wilson, P. Scheet, J.O. Kitman, E.S. Lander, J.M. Engreitz, B.L. Ebert, A.P. Reiner, S. Jaiswal, G. Abecasis, V.G. Sankaran, S. Kathiresan and P. Natarajan. Inherited Causes of Clonal Haematopoiesis in 97,691 Whole Genomes. *Nature*. Oct 2020;586(7831):763-768. doi:10.1038/s41586-020-2819-2. **Human Genetics**.
4. Blackburn, A.N., **L. Blondell**, **M.Z. Kos**, **N.B. Blackburn**, **J.M. Peralta**, **P.T. Stevens**, D.M. Lehman, **J. Blangero**, and **H.H.H. Göring**. Genotype Phasing in Pedigrees Using Whole-Genome Sequence Data. *European Journal of Human Genetics*. Jun 2020;28(6):790-803. doi:10.1038/s41431-020-0574-3. **Human Genetics**.
5. Cadby, G., P.E. Melton, N.S. McCarthy, C. Giles, N.A. Mellett, K. Huynh, J. Hung, J. Beilby, M.P. Dube, G.F. Watts, **J. Blangero**, P.J. Meikle, and E.K. Moses. Heritability of 596 Lipid Species and Genetic Correlation with Cardiovascular Traits in the Busselton Family Heart Study. *Journal of Lipid Research*. Apr 2020;61(4):537-545. doi:10.1194/jlr.RA119000594. **Human Genetics**.
6. **Diaz-Badillo, A.**, C. Ramirez-Pfeiffer, and **J.C. Lopez-Alvarenga**. Social Networks, Machine Learning and Cladistics in the Time of Covid-19. *Cirugía y Cirujanos*. 2020;88(4):395-398. Redes sociales, aprendizaje automatizado y cladística en tiempos de COVID-19. doi:10.24875/CIRU.M20000065. **Human Genetics**.
7. **Diego, V.P.**, **B.W. Luu**, M. Hofmann, L.V. Dinh, **M. Almeida**, J.S. Powell, R. Rajalingam, **J.M. Peralta**, **S.**

**Kumar, J.E. Curran, Z.E. Sauna, R. Kellerman, Y. Park, N.S. Key, M.A. Escobar, H. Huynh, A.M. Verhagen, S. Williams-Blangero, P.V. Lehmann, E. Maraskovsky, J. Blangero, and T.E. Howard.** Quantitative Hla-Class-Ii/Factor Viii (Fviii) Peptidomic Variation in Dendritic Cells Correlates with the Immunogenic Potential of Therapeutic Fviii Proteins in Hemophilia A. *Journal of Thrombosis and Haemostasis*. Jan 2020;18(1):201-216. doi:10.1111/jth.14647. **Human Genetics.**

8. Dominguez-de-la-Cruz, E., M.L. Munoz, E. Hernandez-Garcia, G. Perez-Ramirez, R.E. David, J. Navarrete-Espinosa, **A. Diaz-Badillo**, M. Moreno-Galeana, and C.A. Brito-Carreon. Dataset on the Epidemiology and Genetic Diversification of Dengue Virus (Denv) Serotypes and Genotypes in Mexico. *Data Brief*. Oct 2020;32:106077. doi:10.1016/j.dib.2020.106077. **Human Genetics.**

9. Hernandez-Garcia, E., M.L. Munoz, R.E. David, G. Perez-Ramirez, J. Navarrete-Espinosa, **A. Diaz-Badillo**, E. Dominguez-de-la-Cruz, M. Moreno-Galeana, and C.A. Brito-Carreon. Epidemiological Implications of the Genetic Diversification of Dengue Virus (Denv) Serotypes and Genotypes in Mexico. *Infection, Genetics and Evolution*. Oct 2020;84:104391. doi:10.1016/j.meegid.2020.104391. **Human Genetics.**

10. Hou, R., S.A. Cole, M. Graff, K. Haack, **S. Laston**, A.G. Comuzzie, N.R. Mehta, K. Ryan, D.L. Cousminer, B.S. Zemel, S.F.A. Grant, B.D. Mitchell, R.J. Shypailo, M.L. Gourlay, K.E. North, N.F. Butte, and V.S. Voruganti. Genetic Variants Affecting Bone Mineral Density and Bone Mineral Content at Multiple Skeletal Sites in Hispanic Children. *Bone*. Mar 2020;132:115175. doi:10.1016/j.bone.2019.115175. **Human Genetics.**

11. Karere, G.M., E.J. Dick, Jr., S. Galindo, Jr., J.C. Martinez, J.E. Martinez, M. Owston, **J.L. VandeBerg**, and L.A. Cox. Histological Variation of Early Stage Atherosclerotic Lesions in Baboons after Prolonged Challenge with High-Cholesterol, High-Fat Diet. *Journal of Medical Primatology*. Feb 2020;49(1):3-9. doi:10.1111/jmp.12449. **Human Genetics.**

12. Kharabian Masouleh, S., S.B. Eickhoff, Y. Zeighami, L.B. Lewis, R. Dahnke, C. Gaser, F. Chouinard-Decorte, C. Lepage, L.H. Scholtens, F. Hoffstaedter, D.C. Glahn, **J. Blangero**, A.C. Evans, S. Genon, and S.L. Valk. Influence of Processing Pipeline on Cortical Thickness Measurement. *Cerebral Cortex*. Jul 30 2020;30(9):5014-5027. doi:10.1093/cercor/bhaa097. **Human Genetics.**

13. **Kumar, S., J.E. Curran, E. DeLeon, A.C. Leandro, T.E. Howard**, D.M. Lehman, **S. Williams-Blangero**, D.C. Glahn, and **J. Blangero**. Role of Mirna-Mrna Interaction in Neural Stem Cell Differentiation of Induced Pluripotent Stem Cells. *International Journal of Molecular Sciences*. Sep 23 2020;21(19):6980. doi:10.3390/ijms21196980. **Human Genetics.**

14. **Kumar, S., J.E. Curran, E.C. Espinosa**, D.C. Glahn, and **J. Blangero**. Highly Efficient Induced Pluripotent Stem Cell Reprogramming of Cryopreserved Lymphoblastoid Cell Lines. *Journal of Biological Methods*. 2020;7(1):e124. doi:10.14440/jbm.2020.296. **Human Genetics.**

15. Li, X.H., Z.L. Li, H.F. Zhou, S.M. Gaynor, Y.W. Liu, H. Chen, R. Sun, R. Dey, D.K. Arnett, S. Aslibekyan, C.M. Ballantyne, L.F. Bielak, **J. Blangero**, E. Boerwinkle, D.W. Bowden, J.G. Broome, M.P. Conomos, A. Correa, L.A. Cupples, **J.E. Curran**, B.I. Freedman, X.Q. Guo, G. Hindy, M.R. Irvin, S.L.R. Kardia, S. Kathiresan, A.T. Khan, C.L. Kooperberg, C.C. Laurie, X.S. Liu, **M.C. Mahaney**, A.W. Manichaikul, L.W. Martin, R.A. Mathias, S.T. McGarvey, B.D. Mitchell, M.E. Montasser, J.E. Moore, A.C. Morrison, J.R.

- O'Connell, N.D. Palmer, A. Pampana, **J.M. Peralta**, P.A. Peyser, B.M. Psaty, S. Redline, K.M. Rice, S.S. Rich, J.A. Smith, H.K. Tiwari, M.C.Y. Tsai, R.S. Vasan, F.F. Wang, D.E. Weeks, Z.P. Weng, J.G. Wilson, L.R. Yanek, N.T.O.P. M, and T.L.W. Grp. Dynamic Incorporation of Multiple in Silico Functional Annotations Empowers Rare Variant Association Analysis of Large Whole-Genome Sequencing Studies at Scale. *Nature Genetics*. Sep 2020;52(9):969+. doi:10.1038/s41588-020-0676-4. **Human Genetics**.
16. **Lopez-Alvarenga, J.C.**, G. Chittoor, S.F.D. Paul, S. Puppala, V.S. Farook, S.P. Fowler, **R.G. Resendez**, J. Hernandez-Ruiz, **A. Diaz-Badillo**, D. Salazar, D.D. Garza, D.M. Lehman, **S. Mummidi**, **R. Arya**, **C.P. Jenkinson**, J.L. Lynch, R.A. DeFronzo, **J. Blangero**, D.E. Hale, and **R. Duggirala**. Acanthosis Nigricans as a Composite Marker of Cardiometabolic Risk and Its Complex Association with Obesity and Insulin Resistance in Mexican American Children. *PLoS One*. Oct 15 2020;15(10):e0240467. doi:10.1371/journal.pone.0240467. **Human Genetics**.
17. Lu, L.L., J. Das, P.S. Grace, S.M. Fortune, **B.I. Restrepo**, and G. Alter. Antibody Fc Glycosylation Discriminates between Latent and Active Tuberculosis. *Journal of Infectious Diseases*. Dec 15 2020;222(12):2093-2102. doi:10.1093/infdis/jiz643. **Human Genetics**.
18. Martínez-Peinado, N., N. Cortes-Serra, I. Losada-Galvan, C. Alonso-Vega, J.A. Urbina, A. Rodríguez, **J.L. VandeBerg**, M.J. Pinazo, J. Gascon, and J. Alonso-Padilla. Emerging Agents for the Treatment of Chagas Disease: What Is in the Preclinical and Clinical Development Pipeline? *Expert Opinion on Investigational Drugs*. 2020;29(9):947-959. doi:10.1080/13543784.2020.1793955. **Human Genetics**.
19. Mathias, S.R., E.E.M. Knowles, J. Mollon, A. Rodrigue, M.M.C. Koenis, A.F. Alexander-Bloch, A.M. Winkler, R.L. Olvera, **R. Duggirala**, **H.H.H. Göring**, **J.E. Curran**, P.T. Fox, L. Almasy, **J. Blangero**, and D.C. Glahn. Minimal Relationship between Local Gyrfication and General Cognitive Ability in Humans. *Cerebral Cortex*. Jun 2020;30(6):3439-3450. doi:10.1093/cercor/bhz319. **Human Genetics**.
20. Mollon, J., **J.E. Curran**, S.R. Mathias, E.E.M. Knowles, P. Carlisle, P.T. Fox, R.L. Olvera, **H.H.H. Göring**, A. Rodrigue, L. Almasy, **R. Duggirala**, **J. Blangero**, and D.C. Glahn. Neurocognitive Impairment in Type 2 Diabetes: Evidence for Shared Genetic Aetiology. *Diabetologia*. May 2020;63(5):977-986. doi:10.1007/s00125-020-05101-y. **Human Genetics**.
21. Mollon, J., S.R. Mathias, E.E.M. Knowles, A. Rodrigue, M.M.G. Koenis, G.D. Pearlson, A. Reichenberg, J. Barrett, D. Denbow, K. Aberizk, M. Zatony, R.A. Poldrack, **J. Blangero**, and D.C. Glahn. Cognitive Impairment from Early to Middle Adulthood in Patients with Affective and Nonaffective Psychotic Disorders. *Psychological Medicine*. Jan 2020;50(1):48-57. doi:10.1017/S0033291718003938. **Human Genetics**.
22. Nielsen, J.B., O. Rom, I. Surakka, S.E. Graham, W. Zhou, T. Roychowdhury, L.G. Fritsche, S.A. Gagliano Taliun, C. Sidore, Y. Liu, M.E. Gabrielsen, A.H. Skogholt, B. Wolford, W. Overton, Y. Zhao, J. Chen, H. Zhang, W.E. Hornsby, A. Acheampong, A. Grooms, A. Schaefer, G.J.M. Zajac, L. Villacorta, J. Zhang, B. Brumpton, M. Loset, V. Rai, P.R. Lundegaard, M.S. Olesen, K.D. Taylor, N.D. Palmer, Y.D. Chen, S.H. Choi, S.A. Lubitz, P.T. Ellinor, K.C. Barnes, M. Daya, N. Rafaels, S.T. Weiss, J. Lasky-Su, R.P. Tracy, R.S. Vasan, L.A. Cupples, R.A. Mathias, L.R. Yanek, L.C. Becker, P.A. Peyser, L.F. Bielak, J.A. Smith, S. Aslibekyan, B.A. Hidalgo, D.K. Arnett, M.R. Irvin, J.G. Wilson, S.K. Musani, A. Correa, S.S. Rich, X. Guo, J.I. Rotter, B.A. Konkle, J.M. Johnsen, A.E. Ashley-Koch, M.J. Telen, V.A. Sheehan, **J. Blangero**, **J.E. Curran**, **J.M. Peralta**, C. Montgomery, W.H. Sheu, R.H. Chung, K. Schwander, S.M. Nouraei, V.R. Gordeuk, Y. Zhang, C.

Kooperberg, A.P. Reiner, R.D. Jackson, E.R. Bleecker, D.A. Meyers, X. Li, S. Das, K. Yu, J. LeFaive, A. Smith, T. Blackwell, D. Taliun, S. Zollner, L. Forer, S. Schoenherr, C. Fuchsberger, A. Pandit, M. Zawistowski, S. Kheterpal, C.M. Brummett, P. Natarajan, D. Schlessinger, S. Lee, H.M. Kang, F. Cucca, O.L. Holmen, B.O. Asvold, M. Boehnke, S. Kathiresan, G.R. Abecasis, Y.E. Chen, C.J. Willer and K. Hveem. Loss-of-Function Genomic Variants Highlight Potential Therapeutic Targets for Cardiovascular Disease. *Nature Communications*. Dec 18 2020;11(1):6417. doi:10.1038/s41467-020-20086-3. **Human Genetics**.

23. Perez-Navarro, L.M., R. Valdez-Ortiz, A. Alegria-Diaz, M. Murguía-Romero, R. Jimenez-Flores, R. Villalobos-Molina, **S. Mummidi, R. Duggirala, and J.C. Lopez-Alvarenga**. Cardiometabolic Risk Factors Associated with Renal Function in Apparently Healthy Young Students: A Cross-Sectional Study. *Revista de Investigación Clínica*. 2020;72(2):95-102. doi:10.24875/RIC.19003204. **Human Genetics**.

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25. Pizzagalli, F., G. Auzias, Q.F. Yang, S.R. Mathias, J. Faskowitz, J.D. Boyd, A. Amini, D. Riviere, K.L. McMahon, G.I. de Zubizaray, N.G. Martin, J.F. Mangin, D.C. Glahn, **J. Blangero**, M.J. Wright, P.M. Thompson, P. Kochunov, and N. Jahanshad. The Reliability and Heritability of Cortical Folds and Their Genetic Correlations across Hemispheres. *Communications Biology*. Sep 15 2020;3(1):510-511. doi:10.1038/s42003-020-01163-1. **Human Genetics**.

26. Ramirez, V., F.A. Montano, R.J. Bautista, **S. Mummidi, J.C. Alvarenga**, and C.J. Bautista. Lactation Plays a Fundamental Role in Developmental Programming. *Endocrine, Metabolic & Immune Disorders Drug Targets*. Dec 9 2020;doi:10.2174/1871530320999201209223341. **Human Genetics**.

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28. Rodriguez-Ayala, E., E.C. Gallegos-Cabrales, L. Gonzalez-Lopez, H.A. Laviada-Molina, R.A. Salinas-Osornio, E.J. Nava-Gonzalez, I. Leal-Berumen, C. Escudero-Lourdes, F. Escalante-Araiza, F.A. Buenfil-Rello, V.G. Peschard, A. Laviada-Nagel, E. Silva, R.A. Veloz-Garza, A. Martinez-Hernandez, F.M. Barajas-Olmos, F. Molina-Segui, L. Gonzalez-Ramirez, R. Espadas-Olivera, R. Lopez-Munoz, R.D. Arjona-Villicana, V.M. Hernandez-Escalante, M.E. Rodriguez-Arellano, J.F. Gaytan-Saucedo, Z. Vaquera, M. Acebo-Martinez, J. Cornejo-Barrera, J.A. Huertas-Quintero, J.C. Castillo-Pineda, A. Murillo-Ramirez, S.P. Diaz-Tena, B. Figueroa-Nunez, M.E. Valencia-Rendon, R. Garzon-Zamora, J.M. Viveros-Paredes, J. Angeles-Chimal, J. Santa-Olalla Tapia, J.M. Remes-Troche, S.B. Valdovinos-Chavez, E.E. Huerta-Avila, **J.C. Lopez-Alvarenga**, A.G. Comuzzie, K. Haack, X. Han, L. Orozco, S. Weintraub, J.W. Kent, S.A. Cole, and R.A. Bastarrachea. Towards Precision Medicine: Defining and Characterizing Adipose Tissue Dysfunction to Identify Early Immunometabolic Risk in Symptom-Free Adults from the Gemm Family Study. *Adipocyte*. Dec 2020;9(1):153-169. doi:10.1080/21623945.2020.1743116. **Human Genetics**.

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**Lopez-Alvarenga.** 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. *Journal of Clinical Gastroenterology*. Apr 2020;54(4):e30-e39. doi:10.1097/MCG.0000000000001242. **Human Genetics.**

30. Seidman, D.N., S.A. Shenoy, M. Kim, R. Babu, I.G. Woods, T.D. Dyer, D.M. Lehman, **J.E. Curran, R. Duggirala, J. Blangero**, and A.L. Williams. Rapid, Phase-Free Detection of Long Identity-by-Descent Segments Enables Effective Relationship Classification. *American Journal of Human Genetics*. Apr 2020;106(4):453-466. doi:10.1016/j.ajhg.2020.02.012. **Human Genetics.**

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#### Medical Student Publications

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