

SOM Faculty/Staff Publications 2018

1. Ghaddar, S., J. Byun, and **J. Krishnaswami**. Health Insurance Literacy and Awareness of the Affordable Care Act in a Vulnerable Hispanic Population. *Patient Education and Counseling*. Dec 2018;101(12):2233-2240. doi:10.1016/j.pec.2018.08.033. **Family Medicine**.
2. **Krishnaswami, J.**, P.A. Jaini, R. Howard, and S. Ghaddar. Community-Engaged Lifestyle Medicine: Building Health Equity through Preventive Medicine Residency Training. *American Journal of Preventive Medicine*. Sep 2018;55(3):412-421. doi:10.1016/j.amepre.2018.04.012. **Family Medicine**.
3. Adhikari, B.M., N. Jahanshad, D. Shukla, D.C. Glahn, **J. Blangero**, P.T. Fox, R.C. Reynolds, R.W. Cox, E. Fieremans, J. Veraart, D.S. Novikov, T.E. Nichols, L.E. Hong, P.M. Thompson, and P. Kochunov. Comparison of Heritability Estimates on Resting State Fmri Connectivity Phenotypes Using the Enigma Analysis Pipeline. *Human Brain Mapping*. Dec 2018;39(12):4893-4902. doi:10.1002/hbm.24331. **Human Genetics**.
4. **Almeida, M.**, **J. Peralta**, **J. Garcia**, **V. Diego**, **H. Goring**, **S. Williams-Blangero**, and **J. Blangero**. Modeling Methylation Data as an Additional Genetic Variance Component. *BMC Proceedings*. 2018;12(Suppl 9):29. doi:10.1186/s12919-018-0128-7. **Human Genetics**.
5. **Arya, R.**, A. Escalante, V.S. Farook, J.F. Restrepo, D.F. Battafarano, **M. Almeida**, **M.Z. Kos**, M.J. Fourcaudot, **S. Mummidi**, **S. Kumar**, **J.E. Curran**, **C.P. Jenkinson**, **J. Blangero**, **R. Duggirala**, and I. Del Rincon. Data on Genetic Associations of Carotid Atherosclerosis Markers in Mexican American and European American Rheumatoid Arthritis Subjects. *Data Brief*. Apr 2018;17:820-829. doi:10.1016/j.dib.2018.02.006. **Human Genetics**.
6. **Arya, R.**, A. Escalante, V.S. Farook, J.F. Restrepo, D.F. Battafarano, **M. Almeida**, **M.Z. Kos**, M.J. Fourcaudot, **S. Mummidi**, **S. Kumar**, **J.E. Curran**, **C.P. Jenkinson**, **J. Blangero**, **R. Duggirala**, and I. Del Rincon. A Genetic Association Study of Carotid Intima-Media Thickness (Cimt) and Plaque in Mexican Americans and European Americans with Rheumatoid Arthritis. *Atherosclerosis*. Apr 2018;271:92-101. doi:10.1016/j.atherosclerosis.2017.11.024. **Human Genetics**.
7. **Arya, R.**, V.S. Farook, S.P. Fowler, S. Puppala, G. Chittoor, R.G. Resendez, **S. Mummidi**, J. Vanamala, L. Almasy, **J.E. Curran**, A.G. Comuzzie, D.M. Lehman, **C.P. Jenkinson**, J.L. Lynch, R.A. DeFronzo, **J. Blangero**, D.E. Hale, **R. Duggirala**, and **V.P. Diego**. Genetic and Environmental (Physical Fitness and Sedentary Activity) Interaction Effects on Cardiometabolic Risk Factors in Mexican American Children and Adolescents. *Genetic Epidemiology*. Jun 2018;42(4):378-393. doi:10.1002/gepi.22114. **Human Genetics**.
8. Baek, M., **M. Kim**, J.S. Lim, **L.D. Morales**, J. Hernandez, **S. Mummidi**, **S. Williams-Blangero**, I.S. Jang, **A.T. Tsin**, and **D.J. Kim**. Epidermal-Specific Deletion of Tc-Ptp Promotes Uvb-Induced Epidermal Cell Survival through the Regulation of Flk-1/Jnk Signaling. *Cell Death & Disease*. Jun 28 2018;9(7):730. doi:10.1038/s41419-018-0781-9. **Human Genetics**.
9. Balakrishnan, P., D. Vaidya, V.S. Voruganti, K. Haack, J.W. Kent, K.E. North, **S. Laston**, B.V. Howard, J.G. Umans, E.T. Lee, L.G. Best, J.W. MacCluer, S.A. Cole, A. Navas-Acien, and N. Franceschini. Genetic Variants Related to Cardiometabolic Traits Are Associated to B Cell Function, Insulin Resistance, and Diabetes among American Indians: The Strong Heart Family Study. *Frontiers in Genetics*. 2018;9:466.

doi:10.3389/fgene.2018.00466. **Human Genetics.**

10. **Blackburn, N.B., A. Porto, J.M. Peralta, and J. Blangero.** Heritability and Genetic Associations of Triglyceride and Hdl-C Levels Using Pedigree-Based and Empirical Kinships. *BMC Proceedings.* 2018;12(Suppl 9):34. doi:10.1186/s12919-018-0133-x. **Human Genetics.**

11. **Blondell, L., A. Blackburn, M.Z. Kos, J. Blangero, and H.H.H. Göring.** Contribution of Inbred Singletons to Variance Component Estimation of Heritability and Linkage. *Human Heredity.* 2018;83(2):92-99. doi:10.1159/000492830. **Human Genetics.**

12. Cadby, G., P.E. Melton, N.S. McCarthy, **M. Almeida, S. Williams-Blangero, J.E. Curran, J.L. VandeBerg,** J. Hui, J. Beilby, A.W. Musk, A.L. James, J. Hung, **J. Blangero,** and E.K. Moses. Pleiotropy of Cardiometabolic Syndrome with Obesity-Related Anthropometric Traits Determined Using Empirically Derived Kinships from the Busselton Health Study. *Human Genetics.* Jan 2018;137(1):45-53. doi:10.1007/s00439-017-1856-x. **Human Genetics.**

13. Chen, J.A., S.C. Fears, A.J. Jasinska, A. Huang, N.B. Al-Sharif, K.E. Scheibel, T.D. Dyer, A.M. Fagan, **J. Blangero,** R. Woods, M.J. Jorgensen, J.R. Kaplan, N.B. Freimer, and G. Coppola. Neurodegenerative Disease Biomarkers A β (1-40), A β (1-42), Tau, and P-Tau(181) in the Vervet Monkey Cerebrospinal Fluid: Relation to Normal Aging, Genetic Influences, and Cerebral Amyloid Angiopathy. *Brain and Behavior.* Feb 2018;8(2):e00903. doi:10.1002/brb3.903. **Human Genetics.**

14. Chen, X., I. Ayala, C. Shannon, M. Fourcaudot, N.K. Acharya, **C.P. Jenkinson,** S. Heikkinen, and L. Norton. The Diabetes Gene and Wnt Pathway Effector Tcf7l2 Regulates Adipocyte Development and Function. *Diabetes.* Apr 2018;67(4):554-568. doi:10.2337/db17-0318. **Human Genetics.**

15. Das, N.A., A.J. Carpenter, T. Yoshida, S.A. Kumar, S. Gautam, R. Mostany, R. Izadpanah, A. Kumar, **S. Mummidi,** U. Siebenlist, and B. Chandrasekar. Traf3ip2 Mediates Tweak/Tweakr-Induced Pro-Fibrotic Responses in Cultured Cardiac Fibroblasts and the Heart. *Journal of Molecular and Cellular Cardiology.* Aug 2018;121:107-123. doi:10.1016/j.yjmcc.2018.07.003. **Human Genetics.**

16. Duan, J., **H.H.H. Göring,** A.R. Sanders, W. Moy, J. Freda, E.I. Drigalenko, **M. Kos,** D. He, and P.V. Gejman. Transcriptomic Signatures of Schizophrenia Revealed by Dopamine Perturbation in an Ex Vivo Model. *Translational Psychiatry.* Aug 16 2018;8(1):158. doi:10.1038/s41398-018-0216-5. **Human Genetics.**

17. Ganjgahi, H., A.M. Winkler, D.C. Glahn, **J. Blangero,** B. Donohue, P. Kochunov, and T.E. Nichols. Fast and Powerful Genome Wide Association of Dense Genetic Data with High Dimensional Imaging Phenotypes. *Nature Communications.* Aug 14 2018;9(1):3254. doi:10.1038/s41467-018-05444-6. **Human Genetics.**

18. Gao, C., K.L. Tabb, L.M. Dimitrov, K.D. Taylor, N. Wang, X. Guo, J. Long, J.I. Rotter, R.M. Watanabe, **J.E. Curran, J. Blangero,** C.D. Langefeld, D.W. Bowden, and N.D. Palmer. Exome Sequencing Identifies Genetic Variants Associated with Circulating Lipid Levels in Mexican Americans: The Insulin Resistance Atherosclerosis Family Study (Irasfs). *Scientific Reports.* Apr 4 2018;8(1):5603. doi:10.1038/s41598-018-23727-2. **Human Genetics.**

19. Joganic, J.L., K.E. Willmore, J.T. Richtsmeier, K.M. Weiss, **M.C. Mahaney**, J. Rogers, and J.M. Cheverud. Additive Genetic Variation in the Craniofacial Skeleton of Baboons (Genus *Papio*) and Its Relationship to Body and Cranial Size. *American Journal of Physical Anthropology*. Feb 2018;165(2):269-285. doi:10.1002/ajpa.23349. **Human Genetics**.
20. Jun, G., A. Manning, **M. Almeida**, M. Zawistowski, A.R. Wood, T.M. Teslovich, C. Fuchsberger, S. Feng, P. Cingolani, K.J. Gaulton, T. Dyer, T.W. Blackwell, H. Chen, P.S. Chines, S. Choi, C. Churchhouse, P. Fontanillas, R. King, S. Lee, S.E. Lincoln, V. Trubetskoy, M. DePristo, T. Fingerlin, R. Grossman, J. Grundstad, A. Heath, J. Kim, Y.J. Kim, J. Laramie, J. Lee, H. Li, X. Liu, O. Livne, A.E. Locke, J. Maller, A. Mazur, A.P. Morris, T.I. Pollin, D. Ragona, D. Reich, M.A. Rivas, L.J. Scott, X. Sim, R.G. Tearle, Y.Y. Teo, A.L. Williams, S. Zöllner, **J.E. Curran**, **J. Peralta**, B. Akolkar, G.I. Bell, N.P. Burt, N.J. Cox, J.C. Florez, C.L. Hanis, C. McKeon, K.L. Mohlke, M. Seielstad, J.G. Wilson, G. Atzmon, J.E. Below, J. Dupuis, D.L. Nicolae, D. Lehman, T. Park, S. Won, R. Sladek, D. Altshuler, M.I. McCarthy, **R. Duggirala**, M. Boehnke, T.M. Frayling, G.R. Abecasis, and **J. Blangero**. Evaluating the Contribution of Rare Variants to Type 2 Diabetes and Related Traits Using Pedigrees. *Proceedings of the National Academy of Sciences of the United States of America*. Jan 9 2018;115(2):379-384. doi:10.1073/pnas.1705859115. **Human Genetics**.
21. Khan, F.F., P.E. Melton, N.S. McCarthy, B. Morar, **J. Blangero**, E.K. Moses, and A. Jablensky. Whole Genome Sequencing of 91 Multiplex Schizophrenia Families Reveals Increased Burden of Rare, Exonic Copy Number Variation in Schizophrenia Probands and Genetic Heterogeneity. *Schizophrenia Research*. Jul 2018;197:337-345. doi:10.1016/j.schres.2018.02.034. **Human Genetics**.
22. Knowles, E.E.M., **J.E. Curran**, P.J. Meikle, K. Huynh, S.R. Mathias, **H.H.H. Göring**, **J.L. VandeBerg**, **M.C. Mahaney**, M. Jalbrzikowski, M.K. Mosior, L.F. Michael, R.L. Olvera, **R. Duggirala**, L. Almasy, D.C. Glahn, and **J. Blangero**. Disentangling the Genetic Overlap between Cholesterol and Suicide Risk. *Neuropsychopharmacology*. Dec 2018;43(13):2556-2563. doi:10.1038/s41386-018-0162-1. **Human Genetics**.
23. **Kos, M.Z.**, J. Duan, A.R. Sanders, **L. Blondell**, E.I. Drigalenko, M.A. Carless, P.V. Gejman, and **H.H.H. Göring**. Dopamine Perturbation of Gene Co-Expression Networks Reveals Differential Response in Schizophrenia for Translational Machinery. *Translational Psychiatry*. Dec 13 2018;8(1):278. doi:10.1038/s41398-018-0325-1. **Human Genetics**.
24. **Kumar, S.**, **J. Blangero**, and **J.E. Curran**. Induced Pluripotent Stem Cells in Disease Modeling and Gene Identification. *Methods in Molecular Biology*. 2018;1706:17-38. doi:10.1007/978-1-4939-7471-9_2. **Human Genetics**.
25. Lucas, S.E.M., T. Zhou, **N.B. Blackburn**, R.A. Mills, J. Ellis, P. Leo, E. Souzeau, B. Ridge, J.C. Charlesworth, R. Lindsay, J.E. Craig, and K.P. Burdon. Rare, Potentially Pathogenic Variants in 21 Keratoconus Candidate Genes Are Not Enriched in Cases in a Large Australian Cohort of European Descent. *PLoS One*. 2018;13(6):e0199178. doi:10.1371/journal.pone.0199178. **Human Genetics**.
26. **Mahaney, M.C.**, G.M. Karere, D.L. Rainwater, V.S. Voruganti, E.J. Dick, Jr., M.A. Owston, K.S. Rice, L.A. Cox, A.G. Comuzzie, and **J.L. VandeBerg**. Diet-Induced Early-Stage Atherosclerosis in Baboons: Lipoproteins, Atherogenesis, and Arterial Compliance. *Journal of Medical Primatology*. Feb 2018;47(1):3-17. doi:10.1111/jmp.12283. **Human Genetics**.

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28. McCarthy, N.S., J.C. Badcock, M.L. Clark, E.E.M. Knowles, G. Cadby, P.E. Melton, V.A. Morgan, **J. Blangero**, E.K. Moses, D.C. Glahn, and A. Jablensky. Assessment of Cognition and Personality as Potential Endophenotypes in the Western Australian Family Study of Schizophrenia. *Schizophrenia Bulletin*. Jun 6 2018;44(4):908-921. doi:10.1093/schbul/sbx141. **Human Genetics**.
29. McCloskey, K., A.M. De Livera, F. Collier, A.L. Ponsonby, J.B. Carlin, P. Vuillermin, N.A. Mellett, K. Jayawardana, J.M. Weir, **J. Blangero**, **J.E. Curran**, D. Burgner, and P.J. Meikle. Gestational Age and the Cord Blood Lipidomic Profile in Late Preterm and Term Infants. *Neonatology*. 2018;114(3):215-222. doi:10.1159/000487506. **Human Genetics**.
30. Nustad, H.E., **M. Almeida**, A.J. Canty, M. LeBlanc, C.M. Page, and P.E. Melton. Epigenetics, Heritability and Longitudinal Analysis. *BMC Genetics*. Sep 17 2018;19(Suppl 1):77. doi:10.1186/s12863-018-0648-1. **Human Genetics**.
31. **Peralta, J.M.**, **N.B. Blackburn**, **A. Porto**, **J. Blangero**, and J. Charlesworth. Genome-Wide Linkage Scan for Loci Influencing Plasma Triglyceride Levels. *BMC Proceedings*. 2018;12(Suppl 9):52. doi:10.1186/s12919-018-0137-6. **Human Genetics**.
32. **Porto, A.**, **J.M. Peralta**, **N.B. Blackburn**, and **J. Blangero**. Reliability of Genomic Predictions of Complex Human Phenotypes. *BMC Proceedings*. 2018;12(Suppl 9):51. doi:10.1186/s12919-018-0138-5. **Human Genetics**.
33. Prakash, S., S. Bihari, Z.Y. Lim, S. Verghese, **H. Kulkarni**, and A.D. Bersten. Concordance between Point-of-Care Blood Gas Analysis and Laboratory Autoanalyzer in Measurement of Hemoglobin and Electrolytes in Critically Ill Patients. *Journal of Clinical Laboratory Analysis*. Jul 2018;32(6):e22425. doi:10.1002/jcla.22425. **Human Genetics**.
34. Ramstetter, M.D., S.A. Shenoy, T.D. Dyer, D.M. Lehman, **J.E. Curran**, **R. Duggirala**, **J. Blangero**, J.G. Mezey, and A.L. Williams. Inferring Identical-by-Descent Sharing of Sample Ancestors Promotes High-Resolution Relative Detection. *American Journal of Human Genetics*. Jul 5 2018;103(1):30-44. doi:10.1016/j.ajhg.2018.05.008. **Human Genetics**.
35. **Restrepo, B.I.**, L. Kleynhans, A.B. Salinas, B. Abdelbary, H. Tshivhula, G.P. Aguillón-Durán, C. Kunsevi-Kilola, G. Salinas, K. Stanley, S.T. Malherbe, E. Maasdorp, M. Garcia-Viveros, I. Louw, E.M. Garcia-Oropesa, **J.C. Lopez-Alvarenga**, J.B. Prins, G. Walzl, L.S. Schlesinger, and K. Ronacher. Diabetes Screen During Tuberculosis Contact Investigations Highlights Opportunity for New Diabetes Diagnosis and Reveals Metabolic Differences between Ethnic Groups. *Tuberculosis (Edinb)*. Dec 2018;113:10-18. doi:10.1016/j.tube.2018.08.007. **Human Genetics**.
36. Romero-Ibarguengoitia, M.E., F. Vadillo-Ortega, A.E. Caballero, I. Ibarra-González, A. Herrera-Rosas, M.F. Serratos-Canales, M. León-Hernández, A. González-Chávez, **S. Mummidi**, **R. Duggirala**, and **J.C. López-Alvarenga**. Family History and Obesity in Youth, Their Effect on Acylcarnitine/Aminoacids

Metabolomics and Non-Alcoholic Fatty Liver Disease (Nafld). Structural Equation Modeling Approach. *PLoS One*. 2018;13(2):e0193138. doi:10.1371/journal.pone.0193138. **Human Genetics**.

37. Sanders, S.J., B.M. Neale, H. Huang, D.M. Werling, J.Y. An, S. Dong, G. Abecasis, P.A. Arguella, **J. Blangero**, M. Boehnke, M.J. Daly, K. Eggen, D.H. Geschwind, D.C. Glahn, D.B. Goldstein, R.E. Gur, R.E. Handsaker, S.A. McCarroll, R.A. Ophoff, A. Palotie, C.N. Pato, C. Sabatti, M.W. State, A.J. Willsey, S.E. Hyman, A.M. Addington, T. Lehner, and N.B. Freimer. Publisher Correction: Whole Genome Sequencing in Psychiatric Disorders: The Wgspd Consortium. *Nature Neuroscience*. Jul 2018;21(7):1017. doi:10.1038/s41593-018-0102-8. **Human Genetics**.

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39. Totomoch-Serra, A., M.L. Muñoz, J. Burgueño, M.C. Revilla-Monsalve, and **A. Diaz-Badillo**. Association of Common Polymorphisms in the Vegfa and Sirt1 Genes with Type 2 Diabetes-Related Traits in Mexicans. *Archives of Medical Science*. Oct 2018;14(6):1361-1373. doi:10.5114/aoms.2018.74757. **Human Genetics**.

40. Totomoch-Serra, A., M.L. Muñoz, J. Burgueño, M.C. Revilla-Monsalve, A. Perez-Muñoz, and **Á. Diaz-Badillo**. The Adra2a Rs553668 Variant Is Associated with Type 2 Diabetes and Five Variants Were Associated at Nominal Significance Levels in a Population-Based Case-Control Study from Mexico City. *Gene*. Aug 30 2018;669:28-34. doi:10.1016/j.gene.2018.05.078. **Human Genetics**.

41. Diaz, D., V. Fonseca, **Y.W. Aude**, and G.A. Lamas. Chelation Therapy to Prevent Diabetes-Associated Cardiovascular Events. *Current Opinion in Endocrinology, Diabetes, and Obesity*. Aug 2018;25(4):258-266. doi:10.1097/med.0000000000000419. **Internal Medicine**.

42. **Krouse, H.J.**, C.C.W. Reavis, R.J. Stachler, D.O. Francis, and S. O'Connor. Plain Language Summary: Hoarseness (Dysphonia). *Otolaryngology and Head and Neck Surgery*. Mar 2018;158(3):427-431. doi:10.1177/0194599817751137. **Internal Medicine**.

43. Stachler, R.J., D.O. Francis, S.R. Schwartz, C.C. Damask, G.P. Digoy, **H.J. Krouse**, S.J. McCoy, D.R. Ouellette, R.R. Patel, C.C.W. Reavis, L.J. Smith, M. Smith, S.W. Strode, P. Woo, and L.C. Nnacheta. Clinical Practice Guideline: Hoarseness (Dysphonia) (Update). *Otolaryngology and Head and Neck Surgery*. Mar 2018;158(1_suppl):S1-s42. doi:10.1177/0194599817751030. **Internal Medicine**.

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45. Bermea, K.C., *Interphotoreceptor Retinol Binding Protein Implication in Diabetic Retinopathy*, in *Early Events in Diabetic Retinopathy and Intervention Strategies*, **A. Tsin** and J. Grigsby, Editors. 2018, IntechOpen: London. p. 37-46. **Molecular Science**.

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