Curriculum Vitae

Joanne E. Curran, Ph.D.

Proffesor
Division of Human Genetics, and
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Current Position and appointments

Sept 2023 – present	Director Human Genetics PhD Program
July 2018 – present	Lacks Valley Stores, LTD Endowed Professor South Texas Diabetes and Obesity Institute, UTRGV School of Medicine
Nov 2017 – present	Professor Division of Human Genetics, UTRGV School of Medicine
Feb 2015 – present	Professor South Texas Diabetes and Obesity Institute, UTRGV School of Medicine
Jun 2016 – present	Adjunct Professor UT Health, The University of Texas Health Science Center at Houston
Mar 2013 – present	Adjunct Research Fellow Baker IDI Heart and Diabetes Institute

Feb 2015 – Dec 2022	Adjunct Professor Menzies Institute for Medical Research, University of Tasmania

Career History

Dec 2010 – Feb 2015	*Associate Scientist* Department of Genetics, Texas Biomedical Research Institute *(Formerly Southwest Foundation for Biomedical Research)*
Jul 2008 – Dec 2014	*Adjunct Research Fellow* Griffith Institute for Health and Medical Research, Griffith University
Dec 2006 – Dec 2010	*Assistant Scientist* Department of Genetics, Southwest Foundation for Biomedical Research
Mar 2005 – Dec 2006	*Staff Scientist I* Department of Genetics, Southwest Foundation for Biomedical Research
Jan 2002 – Feb 2005	*Postdoctoral Research Fellow & Director, High Throughput Genotyping* International Diabetes Institute & Human Genomics Program, ChemGenex Pharmaceuticals Limited
2001	*Research Scientist and Centre Manager (full time)* Genomics Research Centre, Griffith University Gold Coast
1998 - 2000	*Griffith University Postgraduate Scholar (PhD) and Tutor* Genomics Research Centre, Griffith University Gold Coast *Laboratory Manager* Genomics Research Centre, Griffith University Gold Coast
1997	*Griffith University Honours Student and Tutor* Genomics Research Centre, Griffith University Gold Coast

Education

1998 – 2001	PhD, Griffith University Gold Coast AU PhD Thesis: Novel Genotypes Associated with Sporadic Breast Cancer Development (conferred 2002)
1997	BHSc (Honours), Griffith University Gold Coast AU First Class Honours (1A) (conferred 1998) Thesis: Molecular Analysis of Breast Cancer Susceptibility Genes
1993 - 1996	*BSc*, Applied Biology Major, Griffith University Gold Coast (GPA - 5.8, conferred 1997)

Awards and Honours

2023	Recipient, UTRGV SOM Faculty Award for Outstanding achievement in Research by a Senior Investigator
2023	Recipient, UTRGV Faculty Excellence Award for Research
2007	Recipient, San Antonio's 40 Under 40 Award
2006	Winner, Young Investigator Award, Genomics of Hyperglycaemia Symposium
2006	Recipient, Illumina User Group Meeting Travel Award
1998-2000	Recipient, Gold Coast City Council Breast Cancer Research Scholarship
1998	Recipient, Australian Society for Medical Research Travel Award

Professional Memberships

2002 – present	Member, American Society of Human Genetics (ASHG)
2013 – 2018	Member, International Society of Psychiatric Genetics (ISPG)
2006 – 2015	Member, American Diabetes Association (ADA)
1998 – 2003	Member, Australian Society for Medical Research

Professional Activities

Grant Reviews:

Permanent Member:

2018 – 2022	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases B Committee
2011 – 2017	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases B Committee

Ad Hoc Member:

2024	Louisiana Board of Regents Support Fund Research Competitiveness Subprogram Biological Sciences II Review Panel
2023	NIH-NIDDK Specialized Study Centers Review, Limited Competition for the Continuation of the Rare and Atypical Diabetes NeTwork (RADIANT) Specialized Study Centers
2023	NIH-NIDDK Special Emphasis Panel ZDK1 GRB-C-O1, Ancillary Studies to the IBD Consortium
2022	NIH-NIDDK Special Emphasis Panel ZDK1 GRB-C
2021	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases C Committee
2020	Health Research Coucil of New Zealand
2017, 2018, 2020	NIH Director's New Innovator Award

2019	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases C Committee
2019	Michigan Nutrition and Obesity Research Center
2018, 2019	UT System ConTex
2018	NIH-NIDDK Collaborative Clinical Research in Type 1 Diabetes: Living Biobank (R01)
2018	NIH-NHLBI Special Emphasis Panel for MACS/WIHS Combined Cohort Study of People Living with HIV (U01)
2018	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases B Committee
2018	NIH-NIDDK Special Emphasis Panel for Center for Identification and Study of Individuals with Atypical Diabetes Mellitus (U54)
2014	NIH-NIDDK Special Emphasis Panel Member 2014/05 ZRG1 PSE-B
2013	NIH-NIDDK Diabetes Complications Consortium
2013	NIH Clinical and Integrative Diabetes and Obesity Study Section
2010 – 2011	NIH-NIDDK Diabetes, Endocrinology and Metabolic Diseases B Committee
2010	NIH Kidney, Nutrition, Obesity and Diabetes Study Section Special Emphasis Panel Member
2009	NIH Genes, Genomes and Genetics
2006, 2009	Southwest Foundation Forum Science Awards
2009 – 2010	Southwest Foundation Forum High School Awards
2007 – 2008	Southwest Foundation Forum and Voelcker Grants

Editorial Boards:

2022 – present	Frontiers in Cardiovascular Medicine, Cardiovascular Genetics and Systems Medicine
2016 – present	Metabolic Syndrome and Related Disorders

Manuscript Reviews:

I have reviewed manuscripts for American Journal of Epidemiology, Cell Reports Medicine, Clinical Breast Cancer, Diabetes, Diabetes and Vascular Disease, Diabetologia, European Journal of Human Genetics, Frontiers in Cardiovascular Medicine, Genetics, Human Genetics, Human Molecular Genetics, Journal of the American Medical Association (JAMA), Metabolic Syndrome and Related Disorders, Journal of Clinical Medicine, Journal of Neurotrauma, Med, Molecular and Cell Biology of Lipids, Molecular and Cellular Probes, The Open Neurology Journal, The Pharmacogenomics Journal, PLoS Genetics, PLoS One, Preventative Medicine, Proceedings of the National Academy of Sciences of the United States of America (PNAS), Psychoneuroendocrinology, Scientific Reports.

Department of Human Genetics Committees:

2022 – present	Member, Human Genetics PhD Program Admissions Committee
2022 – 2023	Coordinator, Human Genetics PhD Program
2020 – 2023	Chair, Jean MacCluer and Bennett Dyke Endowed Lectureship Committee

UTRGV School of Medicine Committees:

2024	Member, LCME Virtual Limited Survey Visit, 2024-2025
2023 – 2024	Chair, Promotion, Tenure and Appointment Committee
2023 – present	Member, Primary and Community Care Integrated Service Unit Chair Search Committee
2023	Member, Ad-Hoc Committee on Endowed Professorships
2023	Member, Department of Family Medicine Chair Search Committee
2022 – 2023	Chair, Ad-Hoc Wellness Committee
2022 – present	Member, Ad-Hoc Committee on Policies
2022 – 2023	Member, LCME Full Accreditation Survey Sessions (Teaching, supervision, student assessment, student advancement; Institutional faculty issues)
2021 – 2023	Member, Promotion, Tenure and Appointment Committee
2021 – 2023	Member, LCME Self-Study Subcommittees (Learning Environment Subcommittee, Faculty Engagement, Student Support)
2020 - 2021	Member, Strategic Plan Research and Innovation Workgroup
2020	Member, Early Decision Program Admission Committee
2020	Member, VaquerosMD Admissions Sub-Committee
2019	Member, Faculty Evaluation Workgroup
2019	Member, StandPoint Survey Governance and Communication Workgroup
2018 – 2020	Team Leader, LCME Element 9.9 Taskforce
2018 – 2019	Co-Chair, Shine Academy Nomination Committee
2018 – 2019	Member, CCAC Policy Subcommittee
2018 – 2019	Non-Voting Member, Central Curricular Authority Committee
2017 – present	Chair, Medical Student Evaluation and Promotion Committee
2017 – 2018	Member, Dean's Advisory Council
2016 – 2018	Chair, Faculty Assembly
2015 – 2020	Member, Admissions Committee
2017	Member, LCME Self-Study Task Force Faculty Subcommittee
2017	Member, Strategic Plan Research and Innovation Workgroup
2017	Member, Faculty Compensation and Incentives Planning Research Workgroup
2015 – 2017	Discipline Coordinator for Genetics
2015 – 2017	Member, Central Curricular Authority Committee

UTRGV Committees:

2024 – present	Member, Dean of Optometry Search Committee
2022 – 2023	Member, UT Alliance Equipment Maintenance Service Evaluation Team
2022 – 2023	Member, Division of Research, Facilities Task Force Team
2021	Member, Faculty Endowed Positions Selection Committee
2021 – 2022	Member, College of Sciences Women in Science Network (WISE)
2021	Member, UTRGV Institutional Base Salary and Faculty Compensation Structure Focus Group

2020 – 2021	Co-Chair, UTRGV Tenure and Promotion Full Professor Subcommittee
2019 – 2021	Member, UTRGV Tenure and Promotion Full Professor Subcommittee
2017 – 2020	Member, Advancement Committee, UTRGV Women's Faculty Network

Community Engagament:

2020 – present	Science Expert, Translational Science Expert Panel, Clinical Translational Science Award (CTSA), University of Texas Health Science Center at Houston

Doctoral Dissertation Reviews:

Griffith Institute for Health and Medical Research; Griffith University Gold Coast, Australia
The University of Queensland, Australia
Institute of Health and Biomedical Innovation, Queensland University of Technology, Australia
Gomal University, Pakistan
School of Biomedical Sciences, Queensland University of Technology, Australia

Conference Committees:

2012	Co-Convenor, 9th GeneMappers Conference
2012	Lecturer, Application of Genomics to Anthropological Research Workshop
2007 – 2009	Lecturer, Diversity to Discovery Training Course, Mysore India
2007	Moderator, American Society of Human Genetics Annual Scientific Meeting
2006	Co-Organiser, "Complex Disease Gene Mapping" symposium, ICHG, Brisbane
2001	Convenor, Organising Committee of Brisbane Postgraduate Medical Research Conference
2001	Secretary, Organising Committee for 40th ASMR National Scientific Conference
2001	Member, Organising Committee for 2nd Australasian Gene Mapping Meeting
2000	Member, Organising Committee of Brisbane Postgraduate Medical Research Conference
1998-2001	Member, Queensland Committee of ASMR

Research Interest

I am a molecular geneticist with more than 25 years of experience in the molecular genetic analysis of human complex diseases. My research focuses on the identification and characterization of susceptibility genes for disease conditions such as type 2 diabetes, obesity, cardiovascular disease, Alzheimer's disease, and related

complications in large pedigree-based studies; with the ultimate objective of gaining an insight into the biological pathways involved in disease pathogenesis. I have extensive experience in high-throughput genomic technologies and applying these to help understand the genetic underpinnings of disease. With a history of NIH-funded and industry funded projects, I have continued to significantly enhance my expertise in high-throughput omics.

I have a significant interest using genome-wide lipid measures as endophenotypes for metabolic related diseases. In collaboration with colleagues from Australia, we previously measured more than 300 species of lipids in approximately 1,200 Mexican American individuals. These studies have resulted in the identification of specific roles for several lipid species in diseases such as CVD, hypertension, metabolic syndrome, diabetes, bipolar disorder, and major depression. As part of current NIH funding, we have expanded this effort to more than 800 lipid species in more than 2,500 Mexican American individuals at four different time points and are now identifying those lipids that represent endophenotypes for both cardiovascular disease risk and diabetes, and these lipid measures will serve as valuable endophenotypes for other complex disorders also.

Most recently, I have developed a strong interest in environmental exposures, their influence on human health, and the investigation of human genotype-by-environment interaction. Working with a strong research team here at UTRGV, we are investigating the genetic basis to cellular stress response to different environmental exposures common in South Texas, rattlesnake venom and air pollution. Additionally, I am working with colleagues to investigate the molecular and cellular pathways disrupted in response to plastic compound exposure and the mechanisms behind metabolic disease development.

Finally, working closely with our stem cell scientist, we have been working on developing tissue model systems using induced pluripotent stem cell (iPSC) lines generated from lymphoblastoid cell lines from one of our large ongoing studies of Mexican American families. Funded through my Lacks Valley Stores Ltd, Endowed Professorship, we are generating pancreatic β-cells to use in testing the functionality of DNA variants of relevance to diabetes. Previously our stem cell scientist has successfully generated hepatocytes, cardiomyoctes, neurons, adipocytes, alveolar cells and endothelial cells from these iPSC lines. We have whole genome sequence data available for all of these individuals and therefore use such tissue models to assess the functionality of DNA mutations in a biological system for various different disease traits.

Publications

My career is focused on the identification and characterization of susceptibility genes influencing human complex disease. I have more than 250 publications with over 22,600 citations in this field.

1. Lea RA, Selvey S, Ashton KJ, **Curran JE**, Gaffney PT, Green AC, Griffiths LR (1998) The null allele of GSTM1 does not affect susceptibility to solar keratoses in the Australian white population. *J Am Acad Dermatol* 38(4): 631-633.

2. **Curran JE**, Vaughan T, Lea RA, Weinstein SR, Morrison NA, Griffiths LR (1999) Association of a vitamin D receptor polymorphism with sporadic breast cancer development. *Int J Cancer* 83(6): 723-726.

3. **Curran JE**, Weinstein SR, Griffiths LR (2000) Polymorphisms of glutathione S-transferase genes (GSTM1, GSTP1 and GSTT1) and breast cancer susceptibility. *Cancer Lett* 153(1-2): 113-120.

4. **Curran JE**, Lea RA, Rutherford S, Weinstein SR, Griffiths LR (2001) Association of estrogen receptor and glucocorticoid receptor gene polymorphisms with sporadic breast cancer. *Int J Cancer*, 95(4): 271-275.

5. Carless MA, **Curran JE**, Gaffney P, Weinstein SR, Griffiths LR (2001) Association analysis of somatostatin receptor (SSTR1 and SSTR2) polymorphisms in breast cancer and solar keratosis. *Cancer Lett* 166(2): 193-197.

6. Smith RA, **Curran JE**, Weinstein SR, Griffiths LR (2001) Investigation of glutathione S-transferase zeta and the development of sporadic breast cancer. *Breast Cancer Res* 3(1): 409-411.

7. **Curran JE**, Weinstein SR, Griffiths LR (2002) Polymorphic variants of NFKB1 and its inhibitory protein NFKBIA, and their involvement in sporadic breast cancer. *Cancer Lett* 188(1-2): 103-107.

8. Carless MA, Lea RA, **Curran JE**, Appleyard B, Gaffney P, Green A, Griffiths LR (2002) The GSTM1 null genotype confers an increased risk for solar keratosis development in an Australian Caucasian population. *J Invest Dermatol* 119(6): 1373-1378.

9. Smith RA, Lea RA, **Curran JE**, Weinstein SR, Griffiths LR (2003) Expression of glucocorticoid and progesterone nuclear receptor genes in archival breast cancer tissue. *Breast Cancer Res* 5(1): R9-12.

10. Jowett JB, Elliott KS, **Curran JE**, Hunt N, Walder KR, Collier GR, Zimmet PZ, Blangero J (2004) Genetic variation in BEACON influences quantitative variation in metabolic syndrome-related phenotypes. *Diabetes* 53(9): 2467-2472.

11. Walder K, Kerr-Bayles L, Civitarese A, Jowett J, **Curran J**, Elliott K, Trevaskis J, Bishara N, Zimmet P, Mandarino L, Ravussin E, Blangero J, Kissebah A, Collier GR (2005) The mitochondrial rhomboid protease PSARL is a new candidate gene for type 2 diabetes. *Diabetologia* 48(3):459-468.

12. **Curran JE,** Jowett JB, Elliott KS, Gao Y, Gluschenko K, Wang J, Abel Azim DM, Cai G, Mahaney MC, Comuzzie AG, Dyer TD, Walder KR, Zimmet P, MacCluer JW, Collier GR, Kissebah AH, Blangero J (2005) Genetic variation in selenoprotein S influences inflammatory response. *Nature Genetics* 37(11):1234-1241.

13. Bastarrachea RA, **Curran JE**, Bolado VE, Kent J, López-Alvarenga JC, Téllez-Mendoza J, Blangero J, Comuzzie AG (2006) Vinculando la respuesta inflamatoria, la obesidad y la diabetes con la sobrecarga (estrés) del retículo endoplásmico a través de las acciones de la selenoproteína S. *Rev Edocrinol Nutr* 14(2):89-101.

14. Bozaoglu K, **Curran JE**, Elliott KS, Walder KR, Dyer TD, Rainwater DL, VandeBerg JL, Comuzzie AG, Collier GR, Zimmet P, MacCluer JW, Jowett JB, Blangero J (2006) Association of genetic variation within UBL5 with phenotypes of the metabolic syndrome. *Hum Biol* 78(2):147-159.

15. Diego VP, Rainwater DL, Wang XL, Cole SA, **Curran JE**, Johnson MP, Jowett JB, Dyer TD, Williams JT, Moses EK, Comuzzie AG, Maccluer JW, Mahaney MC, Blangero J (2007) Genotype × adiposity interaction linkage analyses reveal a locus on chromosome 1 for lipoprotein-associated phospholipase A_2, a marker of inflammation and oxidative stress. *Am J Hum Genet* 80(1): 168-177.

16. **Curran JE**, Johnson MP, Dyer TD, Göring HH, Kent JW, Charlesworth JC, Borg AJ, Jowett JB, Cole SA, MacCluer JW, Kissebah AH, Moses EK, Blangero J (2007) Genetic determinants of mitochondrial content. *Hum Mol Genet* 16(12):1504-1514.

17. Rutherford S, Cai G, Lopez-Alvarenga JC, Kent JW, Vorunganti VS, Proffitt JM, **Curran JE**, Johnson MP, Dyer TD, Jowett JB, Bastarrachea RA, Atwood LD, Göring HH, Maccluer JW, Moses EK, Blangero J, Comuzzie AG, Cole SA (2007) A chromosome 11q quantitative-trait locus influences change of blood-pressure measurements over time in Mexican Americans of the San Antonio Family Heart Study. *Am J Hum Genet* 81(4): 744-755.

18. Göring HH, **Curran JE**, Johnson MP, Dyer TD, Charlesworth J, Cole SA, Jowett JB, Abraham LJ, Rainwater DL, Comuzzie AG, Mahaney MC, Almasy L, MacCluer JW, Kissebah AH, Collier GR, Moses EK, Blangero J (2007) Discovery of expression QTLs using large-scale transcriptional profiling in human lymphocytes. *Nature Genetics* 39(10): 1208-1216.

19. Moses EK, Johnson MP, Tømmerdal T, Forsmo S, **Curran JE**, Abraham LJ, Charlesworth JC, Brennecke SP, Blangero J, Austgulen R (2008) Genetic association of preeclampsia to the inflammatory response gene SEPS1. *Am J Obstet Gynecol* 198(3): 336.e1-5.

20. Tejero ME, Voruganti VS, Proffitt JM, **Curran JE**, Göring HH, Johnson MP, Dyer TD, Jowett JB, Collier GR, Moses EK, MacCluer JW, Mahaney MC, Blangero J, Comuzzie AG, Cole SA (2008) Cross-species replication of a resistin mRNA QTL, but not QTLs for circulating levels of resistin, in human and baboon. *Heredity* 101(1): 60-66.

21. Bozaoglu K, Segal D, Shields KA, Cummings N, **Curran JE**, Comuzzie AG, Mahaney MC, Rainwater DL, VandeBerg JL, MacCluer JW, Collier G, Blangero J, Walder K, Jowett J (2009) Chemerin is associated with metabolic syndrome phenotypes in a Mexican American population. *J Clin Endocrinol Metab* 94(8):3085-3088. PMCID: PMC2730868

22. Smith EM, Zhang Y, Baye TM, Gawrieh S, Cole R, Blangero J, Carless MA, **Curran JE**, Dyer TD, Abraham LJ, Moses EK, Kissebah AH, Martin LJ, Olivier M (2010) INSIG1 influences obesity-related hypertriglyceridemia in humans. *J Lipid Res* 51(4):701-708. PMCID: PMC2838707

23. **Curran JE**, Jowett JB, Abraham LJ, Diepeveen LA, Elliott KS, Dyer TD, Kerr-Bayles LJ, Johnson MP, Comuzzie AG, Moses EK, Walder KR, Collier GR, Blangero J, Kissebah AH (2010) Genetic variation in PARL influences mitochondrial content. *Hum Genet* 127(2): 183-190. PMCID: PMC2829432

24. Jowett JB, **Curran JE**, Johnson MP, Carless MA, Göring HH, Dyer TD, Cole SA, Comuzzie AG, MacCluer JW, Moses EK, Blangero J (2010) Genetic variation at the FTO locus influences RBL2 gene expression. *Diabetes* 59(3):726-732. PMCID: PMC2828652

25. Glahn DC, Winkler AM, Kochunov P, Almasy L, Duggirala R, Carless MA, **Curran JE**, Olvera RL, Laird AR, Smith SM, Beckmann CF, Fox PT, Blangero J (2010) Genetic control over the resting brain. *Proc Natl Acad Sci USA* 107(3): 1223-1228. PMCID: PMC2824276

26. Bozaoglu K, **Curran JE**, Stocker CJ, Zaibi MS, Segal D, Konstantopoulos N, Morrison S, Carless M, Dyer TD, Cole SA, Göring HH, Moses EK, Walder K, Cawthorne MA, Blangero J, Jowett JB (2010) Chemerin, a novel adipokine in the regulation of angiogenesis. *J Clin Endocrinol Metab* 95(5): 2476-2485 PMCID: PMC2869547

27. Prior MJ, Foletta VC, Jowett JB, Segal DH, Carless MA, **Curran JE**, Dyer TD, Moses EK, McAinch AJ, Konstantopoulos N, Bozaoglu K, Collier GR, Cameron-Smith D, Blangero J, Walder KR (2010) The characterization of Abelson helper integration site-1 in skeletal muscle and its links to the metabolic syndrome. *Metabolism* 59(7): 1057-1064. PMCID: PMC3249385

28. Gawrieh S, Baye TM, Carless M, Wallace J, Komorowski R, Kleiner DE, Andris D, Makladi B, Cole R, Charlton M, **Curran J**, Dyer TD, Charlesworth J, Wilke R, Blangero J, Kissebah AH, Olivier M (2010) Hepatic gene networks in morbidly obese patients with nonalcoholic fatty liver disease. *Obes Surg* 20(12): 1698-1709.

29. Melton PE, Rutherford S, Voruganti VS, Göring HH, Laston S, Haack K, Comuzzie AG, Dyer TD, Johnson MP, Kent JW Jr, **Curran JE**, Moses EK, Blangero J, Barac A, Lee ET, Best LG, Fabsitz RR, Devereux RB, Okin PM, Bella JN, Broeckel U, Howard BV, MacCluer JW, Cole SA, Almasy L (2010) Bivariate genetic association of KIAA1797 with heart rate in American Indians: The Strong Heart Family Study. *Hum Mol Genet* 19(18): 3662-3671. PMCID: PMC2928129

30. Charlesworth JC, **Curran JE**, Johnson MP, Göring HH, Dyer TD, Diego VP, Kent Jr JW, Mahaney MC, Almasy L, MacCluer JW, Moses EK, Blangero J (2010) Transcriptomic epidemiology of smoking: the effect of smoking on gene expression in lymphocytes. *BMC Med Genomics* 3:29. PMCID: PMC2911391

31. Konstantopoulos N, Foletta VC, Segal DH, Shields KA, Sanigorski A, Windmill K, Swinton C, Connor T, Wanyonyi S, Dyer TD, Fahey RP, Watt RA, **Curran JE**, Molero JC, Krippner G, Collier GR, James DE, Blangero J, Jowett JB, Walder KR (2011) A gene expression signature for insulin resistance. *Physiol Genomics* 43(3): 110-120.

32. Kochunov P, Glahn DC, Lancaster J, Winkler A, Karlsgodt K, Olvera RL, **Curran JE**, Carless MA, Dyer TD, Almasy L, Duggirala R, Fox PT, Blangero J (2011) Blood pressure and cerebral white matter share common genetic factors in Mexican Americans. *Hypertension* 57(2): 330-335. PMCID: PMC3024472

33. Johansson A, **Curran JE**, Johnson MP, Freed KA, Fenstad MH, Bjørge L, Eide IP, Carless MA, Rainwater DL, Göring HH, Austgulen R, Moses EK, Blangero J (2011) Identification of ACOX2 as a shared genetic risk factor for preeclampsia and cardiovascular disease. *Eur J Hum Genet* 19(7): 796-800. PMCID: PMC3137494

34. Carless MA, Glahn DC, Johnson MP, **Curran JE**, Bozaoglu K, Dyer TD, Winkler AM, Cole SA, Almasy L, MacCluer JW, Duggirala R, Moses EK, Göring HH, Blangero J (2011) Impact of DISC1 variation on neuroanatomical and neurocognitive phenotypes. *Mol Psychiatry* 16(11): 1096-1104. PMCID: PMC3135724

35. Freed KA, Blangero J, Howard T, Johnson MP, **Curran JE**, Garcia YR, Lan HC, Abboud HE, Moses EK (2011) The 57 kb deletion in cystinosis patients extends into TRPV1 causing dysregulation of transcription in peripheral blood mononuclear cells. *J Med Genet* 48(8): 563-566.

36. Olvera RL, Bearden CE, Velligan DI, Almasy L, Carless MA, **Curran JE**, Williamson DE, Duggirala R, Blangero J, Glahn DC (2011) Common genetic influences on depression, alcohol, and substance use disorders in Mexican American families. *Am J Genet B Neuropsychiatr Genet*, 156B(5): 561-568. PMCID: PMC3112290

37. Choh AC, **Curran JE**, Odegaard AO, Nahhas RW, Czerwinski SA, Blangero J, Towne B, Demerath EW (2011) Differences in the heritability of growth and growth velocity during infancy and associations with FTO variants. *Obesity* 19(9): 1847-1854. PMCID: PMC4013792

38. Vinson A, **Curran JE**, Johnson MP, Dyer TD, Moses EK, Blangero J, Cox LA, Rogers J, Havill LM, Vandeberg JL, Mahaney MC (2011) Genetical genomics of Th1 and Th2 immune response in a baboon model of atherosclerosis risk factors. *Atherosclerosis* 217(2): 387-394. PMCID: PMC3176804

39. Kumar S, Bellis C, Zlojutro M, Melton PE, Blangero J, **Curran JE** (2011) Large scale mitochondrial sequencing in Mexican Americans suggests a reappraisal of Native American origins. *BMC Evol Biol* 11(1): 293. PMCID: PMC3217880

40. **Curran JE**, Meikle PJ, Blangero J (2011) New approaches for the discovery of lipid-related genes. *Clin Lipidol* 6(5): 495-500.

41. Kochunov P, Glahn DC, Nichols TE, Winkler AM, Hong EL, Holcomb HH, Stein JL, Thompson PM, **Curran JE**, Carless MA, Olvera RL, Johnson MP, Cole SA, Kochunov V, Kent J, Blangero J (2011) Genetic analysis of cortical thickness and fractional anisotropy of water diffusion in the brain. *Front Neurosci* 5: 120. PMCID: PMC3199541

42. Almasy L, Dyer TD, Peralta JM, Kent JW Jr, Charlesworth JC, **Curran JE**, Blangero J (2011) Genetic Analysis Workshop 17 mini-exome simulation. *BMC Proceedings* 5(Suppl 9): S2. PMCID: PMC3287854

43. Cummings N, Shields KA, **Curran JE**, Bozaoglu K, Trevaskis J, Gluschenko K, Cai G, Comuzzie AG, Dyer TD, Walder KR, Zimmet P, Collier GR, Blangero J, Jowett JB (2012) Genetic variation in SH3-domain GRB2-like (endophilin)-interacting protein 1 has a major impact on fat mass. *Int J Obes* 36(2): 201-206.

44. Diego VP, **Curran JE**, Charlesworth J, Peralta JM, Voruganti VS, Cole SA, Dyer TD, Johnson MP, Moses EK, Göring HH, Williams JT, Comuzzie AG, Almasy L, Blangero J, Williams-Blangero S (2012) Systems genetics of the nuclear factor-κB signal transduction network. I. Detection of several quantitative trait loci potentially relevant to aging. *Mech Ageing Dev* 133(1): 11-9. PMCID: PMC3321306

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Book Chapters:

1. **Curran JE**, Bellis C, Almasy L, Blangero J (2015) Genomic studies of human populations: Resequencing approaches to the identification of human quantitative loci. In: Duggirala R, Almasy L, Williams-Blangero S, Paul SFD, Kole C (eds.) Genome Mapping and Genomics in Human and Non-Human Primates. Springer-Verlag, Germany pp. 289-299.

2. Glahn DC, Knowles EE, Mathias SR, Almasy L, Hodgson K, Yao N, Olvera RL, **Curran JE**, Blangero J (2016) Conceptualizing major depression: From genes to neuroanatomy to epidemiology. In: Lehner T, Miller BL, State MW. (eds) Genomics, Circuits, and Pathways in Clinical Neuropsychiatry. Elsevier Inc, pp. 487-501.

3. Kumar S, Blangero J, **Curran JE** (2018) Induced pluripotent stem cells in disease modeling and gene identification. In: DiStefano J. (eds) Disease Gene Identification. Methods in Molecular Biology, vol1706. Humana Press, New York, NY, pp. 17-38.

4. Kumar S, **Curran JE** (2018) Human Genome Project. In: Braaten EB. (eds) The SAGE Encyclopedia of Intellectual and Developmental Disorders. SAGE Publications, Thousand Oaks, CA, pp. 766-769.

Research Grants

Current

RM1 GM149403 Curran, Blangero, Galan, Kumar, Parson (PIs) 09/07/23 – 08/31/28

NIH/NIGMS

Experimental Cellular Approaches to Genotype × Environment Interaction

This project will use a novel experimental approach and pedigree-based design to study the genetic basis of cellular response to environmental stress. Role: Principal Investigator (Contact PI)

R01 DK127636 Curran/Meikle (PIs) 01/01/21 – 12/31/24

NIH/NIDDK

Assessing the Influence of the Human Lipidome on Risk of Diabetes in a Minority Population

The goals of this project are to use WGS to identify novel genes underlying the relationship between human lipid variation and T2D in extended pedigrees of Mexican American individuals, and functionally assess identified targets. Role: Principal Investigator (Contact PI)

R01 DK127636-03S1 Curran (PI) 09/01/23 – 08/31/24

NIH/NIDDK/NIA

Assessing the Influence of the Human Lipidome on Risk of Diabetes in a Minority Population (Supplement)

The major goals of the project are to identify lipidomic correlates of comorbid T2D and Alzheimer's Disease in Hispanics, a population at a significant disadvantage being an ethnic minority disproportionately affected by both diseases. Role: Principal Investigator

U54 HG013247 Williams-Blangero (PI) 09/18/23 – 05/31/28

NIH/NHGRI

UTRGV Diversity Center for Genome Research; Component – Project 1

The major goal of project 1 is to identify novel iPSC-derived hepatocellular endophenotypes involved in NAFLD risk in Mexican Americans, a health disparity population, using a high-throughput multi-omic approach.

Role: Project Co-Lead

R01 AG078423 Mathias/Glahn/Blangero (PIs) 05/15/23 – 04/30/28

NIH/NIA

Shared Genetic and Environmental Influences on Age-Related Hearing Loss, Cognitive Decline, and Dementia Risk

The goal of this project is to understand the genetic determinants of age-related hearing loss, cognitive decline, and risk for dementia in Mexican Americans. Role: Co-Investigator

P30 AG066546-01A1 Seshadri/Maestre (PIs) 07/01/23 – 06/30/26

NIH/NIA

South Texas Alzheimer's Disease Center, Biomarker Core

The major goal of the grant is to develop infrastructure and data/biosample collections specific to South Texas that will be used by investigators to conduct research focused on diminishing the burden of AD in Hispanics. Role: Core Lead

R01 AG058464 Glahn/Blangero (PIs) 09/30/18 – 05/31/23 (NCE)

NIH/NIA

Imaging Genomics of the Aging Brain

The goal of this project is to characterize the genetic influences on normal aging-related changes in neuroanatomic, neurophysiologic and neurocognitive indices. Role: Co-Investigator

Complete (PI Only)

R01 HL140681 Curran/Meikle (PIs) 01/15/18 – 12/31/23 (NCE)

NIH/NHLBI

Genetic Determinants of Lipidomic Variation and Their Role in CVD Risk

The major goal of this project is to assess the influence of genetic variation on the human lipidome and prediction of CVD, using a mixed longitudinal design, in Mexican American individuals. Role: Principal Investigator

R01 DK127636-02S1 Curran (PI) 08/22/22 – 08/21/23

NIH/NIDDK

Assessing the Influence of the Human Lipidome on Risk of Diabetes in a Minority Population (Supplement)

The major goals of the project are to identify lipids influencing T2D-risk post-menopause and to identify significant variations in lipid profiles between males and females, in an effort to reduce the diabetes health disparities evident in Hispanic populations.

R01 DK111201 Lee/Curran (PIs) 09/01/16 – 08/31/23 (NCE)

NIH/NIDDK

Telomere Length Dynamics in Relation to Changes in Adiposity and Metabolic Risk

The major goal is to explore the phenotypic and genotypic relationship between body composition measures and telomere length and telomerase activity, and to investigate the role of telomere length and

telomerase activity on metabolic risk factors and disease in adults. Role: Principal Investigator

Eli Lilly Blangero/Curran (PIs) 12/19/17 – 12/19/22

Examination of Sequence Variants and mRNA Transcript Differences in Cameron County Hispanic Cohort Members to Identify Novel Genetic Variants Involved in Cardiometabolic Disorders (CVD, NASH, DKD, HF)

Exome wide sequencing will be performed to identify coding variants influencing metabolic phenotypes in the Cameron County Hispanic Cohort.

Eli Lilly Blangero/Curran (PIs) 11/12/15 – 11/12/22

Examination of Sequence Variants in Large Human Pedigrees to Identify Novel Genetic

Variants Involved in Cardiac (Patho)physiology

The major goal is to acquire cardiac images from 236 individuals from the San Antonio Family Heart Study. Exploiting available WGS data in these families in combination with cardiac imaging and soluble cardiac biomarker measurements will aid in identification of causal genes influencing cardiac (patho)physiology.

R01 HL113323 Blangero/Curran (PIs) 04/15/12 – 03/31/19

NIH/NHLBI

Whole Genome Sequencing to Identify Causal Genetic Variants Influencing CVD Risk

The major goal of this project is to discover novel genes influencing cardiovascular disease, using a whole genome sequencing approach. Role: Principal Investigator

5 R01 DK079169-05 Curran (PI) 08/01/07 - 06/30/12

NIH/NIDDK

Identification of Regulatory Variants in Novel Candidate Genes for Diabetes

The major goal is to use an integrative genomics approach to identify potentially functional regulatory variants in novel candidate genes for diabetes risk in a large family based study.

5 R01 DK082610-02 Curran (PI) 07/01/09 - 06/30/11

NIH/NIDDK

Expression-Based Empirical Candidate Genes Influencing Body Mass Index

The major goal is to use an integrative genomics approach to identify potentially functional regulatory variants in novel candidate genes for BMI risk in a large family based study.

Invited Seminars

31st January 2025: Memory and Heart Connections Scientific Section, Harlingen TX

Title: Multi-Omics of ADRD Risk

30th January 2025: Memory and Heart Connections La Familia Community Event, Brownsville TX

Title: The Importance of Family-Based Studies

21st November 2024: Moroccon MD and Pharmacy Student Presentation, UM6P, Ben Guerir Morocco

Title: The Role of the Human Lipidome in Complex Disease

19th November 2024: The Single STARS Symposium, UM6P, Ben Guerir Morocco

Title: The Mexican American Family Studies

11th November 2024: Fio-Meta Network Webinar, Fiocruz Brazil

Title: Multi-omic Analysis of Metabolic Disorders in Hispanics

29th April 2024: UTRGV Diversity Center for Genome Research Texas Mexico Collaboration Meeting, Brownsville TX

Title: The Mexican American Family Studies

22nd March 2024: UTRGV Diversity Center for Genome Research Lunch and Learn Seminar Series, Brownsville TX

Title: The Role of the Human Lipidome in Complex Disease

3rd August 2022: Indiana Biosciences Research Institute (IBRI) Summer Seminar Series

Title: Influence of the Plasma Lipidome on Risk of Metabolic-Related Disorders in Hispanics

31st August 2021: Neuroscience Research Seminar Series, UTRGV SOM, Brownsville TX

Title: Genomic Approaches to Gene Discovery in Complex Disease

15th September 2018: 2nd Annual UTRGV, School of Medicine Research Symposium, McAllen TX

Title: The Human Lipidome in Complex Disease

28th July 2018: Class of 2022 White Coat Ceremony Welcome Address on behalf of SOM Faculty, Edinburg TX

18th November 2016: Translational Research Seminar Series, UT Houston School of Public Health, Brownsville TX

Title: The Role of the Human Lipidome in Disease

3rd May 2016: Women's Faculty Network, UTRGV, Brownsville TX

Title: The Role of the Human Lipidome in Disease

9th July 2015: Sanofi/UT System, Austin TX

Title: South Texas Diabetes and Obesity Institute

1st April 2014: The University of Texas Rio Grande Valley, Edinburg TX

Title: Gene Discoveries Relevant for Diabetes, Obesity, and Cardiometabolic Risk in Mexican Americans

7th October 2013: Eli Lilly, Indianapolis IN

Title: Identification of Rare Functional Variants Influencing Risk of Cardiovascular Disease

14th September 2013: 11th Annual Alamo City Cancer Council Update, San Antonio TX

Title: Breast Density and Breast Cancer

13th August 2013: Menzies Research Institute, Hobart AU

Title: Identification of Rare Functional Variants Influencing Risk of Cardiovascular Disease

8th August 2013: Baker IDI Heart and Diabetes Institute, Melbourne AU

Title: Identification of Rare Functional Variants Influencing Complex Disease

11th April 2013: Texas Biomedical Research Institute National Science Teacher's Convention Tour, San Antonio TX

Title: The Department of Genetics: An Overview

11th February 2013: Texas Biomedical Research Institute Fireside Chat, San Antonio TX

Title: Using Human Genomics to Develop Better Therapeutic Drugs

29th January 2013: Texas Biomedical Research Institute Forum High School Tour, San Antonio TX

Title: Human Genetics Research: Dissecting Complex Diseases

26th September 2012: Illumina User Group Meeting, Houston TX

Title: Identification of Rare Functional Variants Influencing Common Complex Diseases

6th August 2012: From Causes to Consequences to Treatment: Obesity Perspective (FASEB Meeting), Snowmass, CO

Title: The Genetic Contribution to Obesity

28th June 2012: Texas Biomedical Research Institute High School Science Teachers Symposium, San Antonio TX

Title: Progress in the Search for Disease-Related Genes: The San Antonio Family Heart Study.

31st January 2012: Department of Cellular and Structural Biology Seminar Series, University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio TX

Title: Progress in the Search for Disease-Related Genes: The San Antonio Family Heart Study.

24th January 2012: Texas Biomedical Research Institute Student Tours, San Antonio TX

Title: Human Genetics Research: Dissecting Complex Diseases

9th January 2012: Application of Genomics to Anthropological Research Workshop, hosted by the American Association of Anthropological Genetics and Texas Biomed, San Antonio TX

Title: Introduction to High-Throughout Genomics

21st June 2011: Texas Biomedical Research Institute Teachers Tours, San Antonio TX

Title: Progress in the Search for Disease-Related Genes: The San Antonio Family Heart Study.

22nd March 2011: Texas Biomedical Research Institute Student Tours, San Antonio TX

Title: Genetics Research: Dissecting Complex Diseases

15th December 2009: Department of Cellular and Structural Biology Seminar Series, University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio TX

Title: The Many Roles of the Mitochondrial Genome

18th March 2009: International Symposium on Ethics, Culture and Population Genomics and the 34th Annual Conference of the Indian Society of Human Genetics, New Delhi, India

Title: Mitochondrial Sequence Variation has a Major Regulatory Influence on the Human Transcriptome

17th February 2009: Southwest Foundation for Biomedical Research Student Tours, San Antonio TX

Title: Genetics Research: Why you should do it!

22nd April 2008: NIDDK Special Symposium: Diabetes Genes and Beta Cell Function: How can we assemble the puzzle? Bethesda, MD

Title: Transcriptomic Approaches to Identification of Genes Influencing Diabetes Risk

12th April 2008: American Association of Physical Anthropologists 77th Annual Meeting, Columbus OH

Title: Genomic studies of human populations: Resequencing approaches for the identification of human quantitative trait loci

28th March 2008: Texas Genetics Society 35th Annual Meeting, College Station TX

Title: Integrative Genomics Approaches to the Discovery of Complex Disease Genes

17th August 2007: Anthropological and Primate Genetics Workshop, hosted by the American Association of Anthropological Genetics and SFBR, San Antonio TX

Title: Comprehensive resequencing to identify functional variants in PARL

12th March 2007: SNP Symposium: From Technology to Applications, Uppsala Sweden

Title: Comprehensive Resequencing to Identify Functional Variants Influencing Complex Phenotypes

13th February 2007: Illumina Seminar Series, Research Triangle Park NC

Title: Large-scale Transcriptional Profiling for the Identification of Genes Influencing Common Complex Diseases

7th September 2006: Southwest Foundation for Biomedical Research Seminar Series, San Antonio TX

Title: Large-scale Transcriptional Profiling for the Identification of Genes Influencing Common Complex Diseases

13th March 2006: Illumina User Group Meeting, La Jolla CA

Title: Transcriptional Profiling using the Illumina Sentrix Human WG-6 BeadChips

19th July 2005: Metabolic Research Unit, Deakin University, Geelong AU

Title: High throughput genetic technologies

15th October 2003: Postgraduate Nutrition Students' Symposium with Wageningen, Deakin, RMIT and Monash Universities AU

Title: Novel genetic variation associated with obesity and type 2 diabetes

23rd September 2003: SNPs in the Asia-Pacific Region, Queensland Institute for Medical Research, Brisbane AU

Title: Novel genetic variation associated with type 2 diabetes and obesity

Teaching

Undergraduate Medical Education, UTRGV SOM

Teaching Related Administrative Positions:

When the UTRGV School of Medicine (SOM) opened in September of 2015, I was involved in the development of the SOM curriculum and the integration of genetics into the curriculum. I served on the Central Curricular Authority Committee (CCAC - reviewing the curriculum) from 2015 to 2017 and was the Discipline Coordinator for Genetics at this same time. I also served on the SOM interview and admissions committee from 2015 through 2020, interviewing new student applicants for acceptance into the school. Finally, I also serve as the chair of the Medical Student Evaluation and Promotion Committee (I have served in this role since 2017) which evaluates the academic and professional performance of the medical students.

Classes Taught:

2016 Molecules to Medicine

- Genetics of cardiovascular disease
- Omics database web interfaces

2018 – 2020 Medicine, Behavior and Society

- Clinical and translational research

PhD Program in Human Genetics, UTRGV

Graduate Related Administrative Positions:

A core committee of faculty was formed in March of 2018, of which I was a member, to develop the PhD Program in Human Genetics. Development continued throughout 2020, a Site Visit was held on December 2, 2020, and the PhD Program was approved in April of 2021. We began writing courses and enrolled our first cohort of students to begin Fall of 2022. From the beginning, I have been very heavily involved in the development of the program curriculum, course development, syllabus development, course assessments and grading, and teaching across the first two years of the

program.

From the enrollment of the first class, I served as the Coordinator of the PhD Program. Effective September 2023, I officially took on the role of Director of the Program. In that role, I have become the liaison for the program, and work directly with Graduate Admissions, Financial Aid, Curriculum and Institutional Assessment, The University Registrar, and Student Enrollment. I am the main contact for our currently enrolled students and new students interested in the program.

Additionally, I am responsible for all course scheduling each semester, assigning of course directors (if changes from prior years are needed, or new electives are selected), working with course directors to develop or update course syllabi, ensure course directors have students grades prepared for entry into Assist at the end of each semester, development of course evaluations for student feedback, collation of all the feedback obtained anonymously through evaluations, monitoring student absences, and addressing any student concerns or issues. I maintain a regular open communication stream with all current students in the program.

Classes Taught:

2022

Inaugural Year

Fall HGEN 8301 Molecular Genetics

- Basic principles of molecular genetics
- Human genome organization and gene structure
- Genetic variation
- Translation and its regulation

I compiled the three exams, collated the results and distrubuted these to the students and was responsible for ensuring all grades were loaded online.

2023

Spring HGEN 8305 Genetic Basis of Human Disease

- Critical interactions in complex disease

- Genetics in diabetes
- Discussion of current topics in human genetics (panel discussion)

I compiled the three exams, collated the results and distrubuted these to the students and was responsible for ensuring all grades were loaded online.

HGEN 8215 Current Topics in Human Genetics

- The human lipidome and complex disease
  - Critical review of two current lipidomic papers

HGEN 8101 Student Seminar (Course Director)

- How to critique a scientific paper and prepare a scientific presentation.
- Practice paper critiques
  - Grading student seminars every 2 weeks

I collated the results, distrubuted these to the students and was responsible for ensuring all grades were loaded online.

2023

Fall *First Year Students:*

HGEN 8301 Molecular Genetics

- Basic principles of molecular genetics
- Human genome organization and gene structure
- Genetic variation
- Translation and its regulation

I compiled the three exams, collated the results and distrubuted these to the students and was responsible for ensuring all grades are loaded online.

Second Year Students:

HGEN 8355 Advanced Topics in Omics Research

- Genomics – DNA sequencing

HGEN 8395 Directed Research (Course Director)

I collated all assessment results from each research rotation for each student, distrubuted the results to the students and was responsible for ensuring all grades are loaded online.

2024

Spring *First Year Students:*

HGEN 8305 Genetic Basis of Human Disease

- Critical interactions in complex disease
- Genetics in diabetes
- Discussion of current topics in human genetics (panel discussion)

I compiled the three exams, collated the results and distrubuted these to the students and will be responsible for ensuring all grades are loaded online.

HGEN 8215 Current Topics in Human Genetics

- The human lipidome and complex disease
  - Critical review of a current lipidomic paper

Second Year Students:

HGEN 8320 Proposal Preparation and Grantsmanship (Course Director)

I developed the course, including the syllabus, and delivered all the lectures, covering seven weeks of the semester. During the remainder of the course the students work on

writing their dissertation proposal, and I am available to provide assistance where needed.

HGEN 8395 Directed Research (Course Director)

I am responsible for collating all assessment results from each research rotation for each student, distrubuting the results to the students and will be responsible for ensuring all grades are loaded online.

HGEN 8375 Stem Cell Based Methodologies in Human Disease Gene Identification

- Stem cell-based approaches in human disease genetics: The pancreas
- Overview of our stem cell-based research

HGEN 8390 Translational Genetics

- Translational Genomics: Moving from the lab to the clinic
- Clinical sequencing in human disease research

Student Mentorship

Mentoring students is one of my greatest passions in science. I have mentored and am currently mentoring several students (undergraduate and graduate) in research projects in my laboratory here at UTRGV.

Current Students:

PhD Students

Stephanie Vindell, Human Genetics PhD Candidate (Primary Advisor)

Dissertation – Multi-Omics Analysis of Comorbid Alzheimer's Disease and Type 2 Diabetes.

David Flores, Human Genetics PhD Candidate (Primary Advisor)

Dissertation – Omics Approaches to Type 2 Diabetes in Hispanics.

Renee Hernandez, Human Genetics PhD Candidate (Committee Member)

Dissertation - Genetic and Environmental Factors Influencing Brain Structure and/or Function.

Undergraduate Student Interns

Katelyn Ramirez – UTRGV

- Spring 2024 - current

Past Students:

Work Study Student

Martin Garcia – UTRGV BMED Student

- Fall Semester, 2022
- Spring Semester, 2023

Graduate Student Interns

Jefferson Brock Tait - UTRGV

- Fall 2023

Emma Gonzalez-Wooding – UT Dallas

- Winter 2022

Renata Rose Guedea – Texas A&M University

- Summer 2022

Kenia Becerrra – UT Austin

- Summer 2017

UTRGV BMED Independent Research Project Students

Deborah Jones

- Project: Evaluation of Fasting Glucose Concentration and Body Mass Index from San Antonio Family Study
- Fall 2018

School of Medicine Students

Bhargavi Akkineni

- December 2019 – September 2021

Leah Bryan

- June - September 2017