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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)

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 19,700 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.

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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.

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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.

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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

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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

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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

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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
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alcohol, and substance use disorders in Mexican American families. *Am J Genet B Neuropsychiatr Genet*, 156B(5): 561-568. PMCID: PMC3112290

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