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## Education & Training

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

## Research Interests

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 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. As a PI or co-I on several NIH-funded and industry funded projects, I have continued to significantly enhance my expertise in high-throughput genomics.

I have a significant interest in the interaction between the gut and the brain and how this interaction influences the development of obesity. As part of a long-running collaboration, we have obtained MRI-derived brain images for analysis of brain structure and function. This work has revolutionized research into psychiatric disorders, substance abuse disorders and major

depression. Additionally, it has allowed the analysis of brain image data with metabolic related phenotypes.

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.

My most recent work has focused on 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 begun to expand this effort to more than 800 lipid species in more than 2,500 Mexican American individuals at four different time points, with the ultimate aim of identifying those lipids that represent endophenotypes for both cardiovascular disease risk and diabetes.

# Publications


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

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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

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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

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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

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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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