

CHRISTOPHER P. JENKINSON, PH.D.
South Texas Diabetes and Obesity Institute (STDOI)
University of Texas Rio Grande Valley (UTRGV)
Rm 2.102 Research Education Bldg (EREBL)
1214 W. Schunior, Edinburg, TX 78541
Cell 210 643-1523; Fax 956 665-6402
christopher.jenkinson@UTRGV.edu
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EDUCATION

Ph.D. University of Otago, Dunedin, New Zealand, 1987-1993, **Biochemistry**
M.Sc. University of Otago, Dunedin, New Zealand, 1984-1986, **Biochemistry**
B.Sc. University of Otago, Dunedin, New Zealand, 1979-1983, **Biology**

SCIENTIFIC TRAINING

1993-1997 **Post Doctoral Fellow, University of California, Los Angeles (UCLA).**
Medical Genetics; Mentors: Steve Cederbaum, M.D., Louis Ignarro, Ph.D.
Project: "Arginase II cloning and analysis"

1987-1993 **Graduate Student. University of Otago, Dunedin, New Zealand,**
Mentor: Murray Grigor, Ph.D.; Doctoral Thesis: "Mammary arginase in the rat"

1984-1986 **Undergraduate Graduate Student. University of Otago, Dunedin, New Zealand,**
Mentors: George Peterson, Ph.D., and Diana Hill, Ph.D., Masters' Thesis: "The
synthesis of oligodeoxyribonucleotides and its application to the site-specific
mutagenesis of bacteriophage f1."

1993-1995 **Intercampus Medical Genetics Training Program, UCLA/Cedars-Sinai Medical
Schools**

1993-1997 **Post-doctoral Fellow, Mental Retardation Research Center, UCLA, Los Angeles**

POSITIONS AND EMPLOYMENT

1985-1986 **Laboratory Technician,** Pathology Dept., University of Otago, New Zealand
1986-1987 **Scientific Officer,** Nutrition Dept., University of Otago, New Zealand
1998-2000 **Senior Staff Fellow,** NIH/NIDDK, Phoenix Indian Medical Center, Phoenix, AZ
2000-2005 **Assistant Professor,** School of Medicine, University of Texas Health Science Center,
San Antonio (UTHSCSA)
2000-2006 **Director,** Molecular Genetics & Genotyping Core Facility, UTHSCSA,
2000-2009 **Health Science Specialist,** STVHCS, Audie Murphy Division, San Antonio, TX
2009-2015 **Research Career Scientist,** STVHCS, Audie Murphy Division, San Antonio, TX
2003-2014 **Scientist (Adjunct),** Texas Biomedical Research Institute (TBRI; formerly SFBR)
2005-2009 **Associate Professor,** School of Medicine, UTHSCSA
2012 **GS14/Research Career Health Scientist,** VA,
2009 **Professor with Tenure,** Medicine, UTHSCSA, San Antonio, TX
2013-2015 **Member, Institutional Review Board (IRB),** UTHSCSA/STVHCS/TBRI
2015-present **Professor, with tenure,** South Texas Diabetes and Obesity Research Institute, School
of Medicine, University of Texas, Rio Grande Valley

GRANT FUNDING (SINCE 2000)

VA, Merit Review “Molecular Epidemiology of T2D in Mexican Americans”	Co-I; (PI: RA DeFronzo)	10/1999-9/2004 Total Costs \$1,405,000
Howard Hughes Medical Institute “Molecular Characterization of ENPP1 in T2D in Mexican Americans”	PI: CP Jenkinson	6/2000-11/2001 Annual Direct Costs: \$45,000
UTHSCSA Competitive Research Enhancement Fund “Mutation Scanning of PC1: A Positional Candidate Gene for T2D in Mexican Americans”	PI: CP Jenkinson	6/2000-7/2001 Annual Direct Costs: \$50,000
TX Permanent University Fund “Molecular Genetics Core Facility”	PI: CP Jenkinson	1/2001-12/2001 Total Direct Costs: \$522,267
VA: VISN17 Molecular Characterization of PC-1 in T2D in Mexican Americans”	PI: CP Jenkinson	4/2001-3/2003 Total Direct Costs \$100,000
NIDDK 2R01DK047936-07A “Molecular Regulation of Muscle Metabolism in Man”	Consultant (PI: Mandarin)	6/2001-7/2006 Total Direct Costs \$969,500
NICHD 5R01HD041111-06 “Genetics of Birth Weight in Mexican Americans”	CoI (PI: Duggirala)	9/2001-6/2008 Total Direct Costs \$2,346,000
VA Merit Review “Molecular Characterization of PC-1 in T2D in Mexican Americans”	PI: CP Jenkinson	4/2002-3/2005 Total Direct Costs \$300,000
Presidents Research Enhancement Fund “Gene discovery in T2D and related phenotypes in Mexican Americans”	PI: CP Jenkinson	6/2002-7/2003 Total Direct Costs \$75,000
Health Resources & Services Administration 1C76HF00470 “Health Care Facilities and Other Construction (Diabetes)”	Co-I (PI: DeFronzo)	9/2002-9/2005 Total Costs \$4,000,000

NIDDK/Center for Inherited Disease Research “A 10 cM genome scan in VAGES”	PI: CP Jenkinson	6/2003-2/2004 Total Costs \$500,000
South Texas Health Research Center (STHRC) “Research Equipment Grant Award”	PI: CP Jenkinson	1/2004-12/2005 Total Costs \$5,000
Applied Biosystems “LD map at 6q23 in Mexican Americans”	PI: CP Jenkinson	1/2004-12/2004 Total Costs \$245,000
NIDDK RO1 DK067690 “ “Diabetes Gene Discovery at Chromosome 6q23” (This proposal received a score of 3% on first submission)	PI: CP Jenkinson	3/2004-3/2009 Total Direct Costs \$2,300,000
San Antonio Area Foundation “Discovery of Diabetes Genes using SNP Genotyping”	Consultant	6/2004-7/2005 Total Costs \$30,876
San Antonio Area Foundation “Gene Expression in a Baboon Model of Type 2 Diabetes Mellitus”	PI: CP Jenkinson	6/2004-7/2005 Total Costs \$31,600
Borderplex Council “Development of diabetes and metabolic syndrome in Hispanics using atypical antipsychotics”	Co-Investigator (PI: Escamilla)	7/2008-6/2009 Total Costs \$49,806
NIDDK 1RO1DK066483 “PGC-1 and Muscle Mitochondrial Dysfunction in Diabetes”	Co-I (PI: Mandarino)	6/2004-7/2009 Total Direct Costs \$1,900,000
NIDDK 3RO1DK53889 “SA Family Gallbladder Disease Study”	Co-I (PI: Duggirala)	6/2004-12/2004 Total Direct Costs \$50,000
Kronkosky Foundation “Pre-Diabetes Gene Discovery in Mexican Americans”	PI: CP Jenkinson	1/2008-1/2009 Total Costs \$75,000
NICHD R01HD037151 “Disablement Process in RA”	Co-I	8/1999-7/2012 Total costs \$3,756,111

VA Merit Review "Molecular Epidemiology of T2D (2)"	Co-I (PI: DeFronzo) 10/2004-3/2009	Total Costs: \$2,185,664
NICHD 5R01HD049051-04 "The Metabolic Syndrome in Mexican American Children"	Co-I (PI: Duggirala) 3/2005-2/2010	Total Costs \$2,724,385
NIDCR 5R03DE016356-02 6/2011 "Epidemiology of Recurrent Aphthous Stomatitis (RAS)"	Co-Investigator 6/2006-	Total Costs \$1,800,000
NIAIDS 5R01HL080149-02 "Genetics of infection and its relationship with CVD risk"	Consultant 8/2006-8/2011	Total Costs \$1,600,000
American Heart Association "Role of Adiponectin Receptor 2 in the Insulin Resistance Syndrome"	Consultant 1/2007-12/2010	Total Costs \$260,000
NHLBI 1R01HL085742-01A "Effect of Chronic Inflammation on Atherosclerosis Outcomes in RA"	Co-Investigator (PI: Del Rincon) 3/2008-2/2016	Total Costs \$3,690,835
RO1 NICHHD The Disablement Process in Rheumatoid Arthritis	Co-Investigator (PI Escalante) 6/2011–7/2014	Total Costs \$1,661,000
VA Merit Review Award "Expression of Insulin Resistance Obesity Genes in Mexican Americans" (this award received a score of 5%)	PI: CP Jenkinson 4/2008-10/2012	Annual Costs \$900,000
NIDDK 1R01DK079195 "Identification of Prediabetes Genes by Expression Linkage Analysis"	PI: CP Jenkinson 4/2008-3/2014	Annual Costs \$3,300,000
NIDDK AMP T2D-GENES Consortium Discovery of functional variants in type 2 diabetes genes in Mexican Americans	Co-Investigator (PI Duggirala) 5/2015-4/2020	Annual Direct Costs \$481,328

PUBLICATIONS – PEER REVIEWED

Papers Published or in Press in Peer-Reviewed Journals

1. **Jenkinson CP**, Grigor MR. Rat mammary arginase: isolation and characterization. Biochem Med Metab Biol 1994 Apr;51(2):156-165.
2. Spector EB, **Jenkinson CP**, Grigor MR, Kern RM, Cederbaum SD. Subcellular location and differential antibody specificity of arginase in tissue culture and whole animals. Int J Dev Neurosci 1994 Jun;12(4):337-342.
3. Wang WW, **Jenkinson CP***, Griscavage JM, Kern RM, Arabolos NS, Byrns RE, Cederbaum SD, Ignarro LJ. Co-induction of arginase and nitric oxide synthase in murine macrophages activated by lipopolysaccharide. Biochem Biophys Res Commun 1995 May;210(3):1009-1016.
***corresponding author.**
4. Vockley JG, Goodman BK, Tabor DE, Kern RM, **Jenkinson CP**, Grody WW, Cederbaum SD. Loss of function mutations in conserved regions of the human arginase I gene. Biochem Mol Med 1996 Oct;59(1):44-51.
5. Buga GM, Singh R, Pervin S, Rogers NE, Schmitz DA, **Jenkinson CP**, Cederbaum SD, Ignarro LJ. Arginase activity in endothelial cells: inhibition by NG-hydroxy-L-arginine during high-output NO production. Am J Physiol 1996 Nov;271(5 Pt):1988-1998.
6. Vockley JG, **Jenkinson CP**, Shukla H, Kern RM, Grody WW, Cederbaum SD. Cloning and characterization of the human type II arginase gene. Genomics 1996 Dec;38(2):118-123.
7. **Jenkinson CP**, Grody WW, Cederbaum SD. Comparative properties of arginases. Comp Biochem Physiol B Biochem Mol Biol 1996 May;114(1):107-132.
8. Robinson MF, Thomson CD, **Jenkinson CP**, Luzhen G, Whanger PD. Long-term supplementation with selenate and selenomethionine: urinary excretion by New Zealand women. Br J Nutr 1997 Apr;77(4):551-563.
9. Iyer R, **Jenkinson CP**, Vockley JG, Kern RM, Grody WW, Cederbaum S. The human arginases and arginase deficiency. J Inher Metab Dis 1998;21 Su:86-100.
10. Carraway MS, Piantadosi CA, **Jenkinson CP**, Huang YC. Differential expression of arginase and iNOS in the lung in sepsis. Exp Lung Res 1998;24(3):253-268.
11. Iyer RK, Bando JM, **Jenkinson CP**, Vockley JG, Kim PS, Kern RM, Cederbaum SD, Grody WW. Cloning and characterization of the mouse and rat type II arginase genes. Mol Genet Metab 1998 Mar;63(3):168-175.
12. Que LG, Kantrow SP, **Jenkinson CP**, Piantadosi CA, Huang YC. Induction of arginase isoforms in the lung during hyperoxia. Am J Physiol 1998 Jul;275(1 Pt):96-102.
13. Walder K, Norman RA, Hanson RL, Schrauwen P, Neverova M, **Jenkinson CP**, Easlick J, Warden CH, Pecqueur C, Raimbault S, Ricquier D, Silver MH, Shuldiner AR, Solanes G, Lowell BB, Chung WK, Leibel RL, Pratley R, Ravussin E. Association between uncoupling protein

- polymorphisms (UCP2-UCP3) and energy metabolism/obesity in Pima Indians. Hum Mol Genet 1998 Sep;7(9):1431-1435.
14. Flechtner-Mors M, Ditschuneit HH, **Jenkinson CP**, Alt A, Adler G. Metformin inhibits catecholamine-stimulated lipolysis in obese, hyperinsulinemic, hypertensive subjects in subcutaneous adipose tissue: an in situ microdialysis study. Diabet Med 1999 Dec;16(12):1000-1006.
 15. **Jenkinson CP**, Cray K, Walder K, Herzog H, Ravussin E. Novel polymorphisms in the neuropeptide-Y Y5 receptor associated with obesity in Pima Indians. Int J Obes Relat Metab Disord 2000 May;24(5):580-584.
 16. **Jenkinson CP**, Hanson R, Cray K, Wiedrich C, Knowler WC, Bogardus C, Baier L. Association of dopamine D2 receptor polymorphisms Ser311Cys and TaqIA with obesity or type 2 diabetes mellitus in Pima Indians. Int J Obes Relat Metab Disord 2000 Oct;24(10):1233-1238.
 17. Flechtner-Mors M, **Jenkinson CP**, Alt A, Adler G, Ditschuneit HH. Effects of acipimox on the lipolysis rate in subcutaneous adipose tissue of obese subjects. Diabetes Metab Res Rev 2001;17(5):387-390.
 18. Tataranni PA, Baier L, **Jenkinson C**, Harper I, Del Parigi A, Bogardus C. A Ser311Cys mutation in the human dopamine receptor D2 gene is associated with reduced energy expenditure. Diabetes 2001 Apr;50(4):901-904.
 19. Flechtner-Mors M, Alt A, Adler G, Ditschuneit HH, **Jenkinson CP**. Norepinephrine-induced glycerol release from adipose tissue: influence of age and body mass index in obese people. Nutrition 2001 Sep;17(9):729-731.
 20. Pratipanawatr W, Pratipanawatr T, Cusi K, Berria R, Adams JM, **Jenkinson CP**, Maezono K, DeFronzo RA, Mandarino LJ. Skeletal muscle insulin resistance in normoglycemic subjects with a strong family history of type 2 diabetes is associated with decreased insulin-stimulated insulin receptor substrate-1 tyrosine phosphorylation. Diabetes 2001 Nov;50(11):2572-2578.
 21. Flechtner-Mors M, **Jenkinson CP**, Alt A, Adler G, Ditschuneit HH. In vivo alpha(1)-adrenergic lipolytic activity in subcutaneous adipose tissue of obese subjects. J Pharmacol Exp Ther 2002 Apr;301(1):229-233.
 22. Duggirala R, Almasy L, Blangero J, **Jenkinson CP**, Arya R, DeFronzo RA, Stern MP, O'Connell P. Further evidence for a type 2 diabetes susceptibility locus on chromosome 11q. Genet Epidemiol 2003 Apr;24(3):240-242.
 23. Arya R, Duggirala R, **Jenkinson CP**, Almasy L, Blangero J, O'Connell P, Stern MP. Evidence of a novel quantitative-trait locus for obesity on chromosome 4p in Mexican Americans. Am J Hum Genet 2004 Feb;74(2):272-282.
 24. Flechtner-Mors M, **Jenkinson CP**, Alt A, Biesalski HK, Adler G, Ditschuneit HH. Sympathetic regulation of glucose uptake by the alpha1-adrenoceptor in human obesity. Obes Res 2004 Apr;12(4):612-620.
 25. Civitarese AE, **Jenkinson CP**, Coletta DK, Bajaj M, Cusi K, Kashyap S, Berria R, Belfort R, DeFronzo RA, Mandarino LJ, Ravussin E. Adiponectin receptors gene expression and insulin

- sensitivity in non-diabetic Mexican Americans with or without a family history of Type 2 diabetes Diabetologia 2004 May;47(5):816-820.
26. Flechtner-Mors M, Biesalski HK, **Jenkinson CP**, Adler G, Ditschuneit HH. Effects of moderate consumption of white wine on weight loss in overweight and obese subjects. Int J Obes Relat Metab Disord 2004 Nov;28(11):1420-1426.
 27. Richardson DK, Kashyap S, Bajaj M, Cusi K, Mandarino SJ, Finlayson J, DeFronzo RA, **Jenkinson CP**, Mandarino LJ. Lipid infusion decreases the expression of nuclear encoded mitochondrial genes and increases the expression of extracellular matrix genes in human skeletal muscle J Biol Chem 2005 Mar;280(11):10290-10297
 28. Flechtner-Mors M, **Jenkinson CP**, Alt A, Biesalski HK, Adler G, Ditschuneit HH. Studies of phosphodiesterase effects on adipose tissue metabolism in obese subjects by the microdialysis technique. J Physiol Pharmacol 2005 Sep;56(3):355-368.
 29. Arya R, Dyer T, Warren DM, **Jenkinson CP**, Duggirala R, Almasy L. Effect of genotype x alcoholism interaction on linkage analysis of an alcoholism-related quantitative phenotype. BMC Genet 2005 Dec;6 Sup:120-120.
 30. Puppala S, Dodd GD, Fowler S, Arya R, Schneider J, Farook VS, Granato R, Dyer TD, Almasy L, **Jenkinson CP**, Diehl AK, Stern MP, Blangero J, Duggirala R. A genomewide search finds major susceptibility loci for gallbladder disease on chromosome 1 in Mexican Americans. Am J Hum Genet 2006 Mar;78(3):377-392.
 31. Arya R, Demerath E, **Jenkinson CP**, Göring HH, Puppala S, Farook V, Fowler S, Schneider J, Granato R, Resendez RG, Dyer TD, Cole SA, Almasy L, Comuzzie AG, Siervogel RM, Bradshaw B, DeFronzo RA, MacCluer J, Stern MP, Towne B, Blangero J, Duggirala R. A quantitative trait locus (QTL) on chromosome 6q influences birth weight in two independent family studies. Hum Mol Genet 2006 May;15(10):1569-1579.
 32. Abdul-Ghani MA, **Jenkinson CP**, Richardson DK, Tripathy D, DeFronzo RA. Insulin secretion and action in subjects with impaired fasting glucose and impaired glucose tolerance: results from the veterans administration genetic epidemiology study Diabetes 2006 May;55(5):1430-1435.
 33. Richardson DK, Schneider J, Fourcaudot MJ, Rodriguez LM, Arya R, Dyer TD, Almasy L, Blangero J, Stern MP, DeFronzo RA, Duggirala R, **Jenkinson CP**. Association between variants in the genes for adiponectin and its receptors with insulin resistance syndrome (IRS)-related phenotypes in Mexican Americans. Diabetologia 2006 Oct;49(10):2317-2328.
 34. Colston JT, Boylston WH, Feldman MD, **Jenkinson CP**, de la Rosa SD, Barton A, Trevino RJ, Freeman GL, Chandrasekar B. Interleukin-18 knockout mice display maladaptive cardiac hypertrophy in response to pressure overload. Biochem Biophys Res Commun 2007;354(2):552-558.
 35. Lehman DM, Richardson DK, **Jenkinson CP**, Hunt KJ, Dyer TD, Leach RJ, Arya R, Abboud HE, Blangero J, Duggirala R, Stern MP. P2 promoter variants of the hepatocyte nuclear factor 4alpha gene are associated with type 2 diabetes in Mexican Americans Diabetes 2007 Feb;56:513-517.

36. Sriwijitkamol A, Coletta DK, Wajcberg E, Balbontin GB, Reyna SM, Barrientes J, Eagan PA, **Jenkinson CP**, Cersosimo E, DeFronzo RA, Sakamoto K, Musi N. Effect of Acute Exercise on AMPK Signaling in Skeletal Muscle of Subjects With Type 2 Diabetes: A Time-Course and Dose-Response Study. Diabetes 2007 Mar;56(3):836-848.
37. Coletta DK, Schneider J, Stern MP, Blangero J, DeFronzo RA, Duggirala R, **Jenkinson CP**. Association of neuropeptide Y receptor Y5 polymorphisms with dyslipidemia in Mexican Americans Obesity 2007 Apr;15(4):809-815.
38. Samudrala N, Farook VS, Dodd GR, Puppala S, Schneider J, Fowler S, Granato R, Dyer TD, Arya R, Almasy L, **Jenkinson CP**, Diehl AK, Stern MP, Blangero J, Duggirala R. Autosomal Genome-wide Linkage Analysis to Identify Loci for Gallbladder Wall Thickness in Mexican Americans Human Biology 2008 Feb;80(1):11-28.
39. Coletta DK, Balas B, Chavez AO, Baig M, Abdul-Ghani M, Kashyap S, Folli F, Tripathy D, Mandarino LJ, Cornell JE, DeFronzo RA, **Jenkinson CP**. Effect of Acute Physiologic Hyperinsulinemia on Gene Expression in Human Skeletal Muscle In Vivo. Am J Physiol Endocrinol Metab 2008 Mar; 294 (5) E910-7.
40. Habib SL, Danial E, Nath S, Schneider J, **Jenkinson CP**, Duggirala R, Abboud HE, and Thameem F, Genetic polymorphisms in OGG1 and association with Angiomyolipomas, a benign kidney tumor in patients with tuberous sclerosis. Cancer Biol Ther 7 (1) 23-7 (2008).
41. Flechtner-Mors M, **Jenkinson CP**, Alt A, Adler G, Ditschuneit HH. Metabolism in adipose tissue in response to citalopram and trimipramine treatment - An in situ microdialysis study. J Psychiatr Res 2008 Jun;42(7):578-586.
42. Abdul-Ghani MA, Matsuda M, Rucha J, **Jenkinson CP**, Coletta DK, Kaku K, DeFronzo RA. The relationship between fasting hyperglycemia and insulin secretion in subjects with normal or impaired glucose tolerance. Am J Physiol Endocrinol Metab. 2008 Aug;295(2):E401-6.
43. **Jenkinson CP**, Coletta DK, Flechtner-Mors M, Hu SL, Fourcaudot M, Rodriguez LM, Schneider J, Arya R, Blangero J, Stern MP, Duggirala R, DeFronzo RA. Association of genetic variation in ENPP1 with obesity-related phenotypes. Obesity 2008 Jul;16(7):1708-1713
44. Reyna SM, Ghosh S, Tantiwong P, Meka CS, Eagan P, **Jenkinson CP**, Cersosimo E, DeFronzo RA, Coletta DK, Sriwijitkamol A, Musi N. Elevated TLR4 expression and signaling in muscle from insulin resistant subjects. Diabetes. 2008 Oct;57(10):2595-602.
45. Yi Z., Bowen B, Hwang H, **Jenkinson CP**, Coletta DK, Lefort N, Bajaj M, Kashyap S, Berria R, DeFilippis EA, and Mandarino LJ. global relationship between the proteome and transcriptome of human skeletal muscle. J Proteome Res. 2008 Aug;7(8):3230-41.
46. Abdul-Ghani MA, Molina-Carrion M, Jani R, **Jenkinson C***, DeFronzo R, Adipocytes in subjects with impaired fasting glucose and impaired glucose tolerance are resistant to the anti-lipolytic effect of insulin. Acta Diabetol. 2008 Sep;45(3):147-50.
47. Arar NH, Freedman BI, Adler SG, Iyengar SK, Chew EY, Davis MD, Satko SG, Bowden DW, Duggirala R, Elston RC, Guo X, Hanson RL, Igo RP Jr, Ipp E, Kimmel PL, Knowler WC, Molineros J, Nelson RG, Pahl MV, Quade SR, Rasooly RS, Rotter JI, Saad MF, Scavini M, Schelling JR, Sedor JR, Shah VO, Zager PG, Abboud HE; Family Investigation of Nephropathy

- and Diabetes Research Group (FIND): Fondran C, Horvath A, Jun G, Kramp K, Quade SR, Slaughter M, Zaletel E, Humbert L, Getz-Fradley L, Collins-Schramm HE, Ipp E, Li H, Seldin MF, LaPage J, Walker B, Garcia C, Gonzalez J, Ingram-Drake L, Klag M, Parekh R, Kao L, Meoni L, Whitehead T, Chester J, Wolford J, Jones L, Juan R, Lovelace R, Luethe C, Phillips LM, Sewemaenewa J, Sili I, Waseta B, Nicholas SB, Guo X, Taylor K, Budgett M, Hariri F, Bobelu A, Kasinath BS, Stern M, **Jenkinson C**, Goyes C, Sartorio V, Abboud T, Hernandez L, Rich SS, Warren S, Viverette S, Brooks G, Young R, Spainhour M, Winkler C, Smith MW, Thompson M, Kessing B, Briggs JP, Chakraborty R, Chakraborty GM, O'Brien SJ, Spielman R. Heritability of the severity of diabetic retinopathy: the FIND-Eye study. *Invest Ophthalmol Vis Sci*. 2008 Sep;49(9):3839-45.
48. Coletta DK, Sriwijitkamol A, Wajcberg E, Tantiwong P, Li M, Prentki M, Madiraju M, **Jenkinson CP**, Cersosimo E, Musi N, DeFronzo RA. Pioglitazone stimulates AMP-activated protein kinase signalling and increases the expression of genes involved in adiponectin signalling, mitochondrial function and fat oxidation in human skeletal muscle in vivo: a randomised trial. *Diabetologia*. 2009 52(4):723-32. PMID: 19169664
 49. Coletta, DK, Schneider J, Hu SL, Dyer TD, Puppala S, Farook VS, Arya R, DeFronzo RA, Duggirala R, **Jenkinson CP**. Genome-wide linkage scan for genes influencing plasma triglyceride levels in the Veterans Administration Genetic Epidemiology Study (VAGES). *Diabetes*. 2009 58(1):279-84. PMID: 18931038
 50. Arya R, Hare E, Del Rincon I, **Jenkinson CP**, Duggirala R, Almasy L, Escalante A. Effects of covariates and interactions on a genome-wide association analysis of rheumatoid arthritis. *BMC Proc*. 2009 Dec 15;3 Suppl 7:S84. PMID: 20018080
 51. Monroy A, Kamath S, Chavez AO, Centonze VE, Veerasamy M, Barrentine A, Wewer JJ, Coletta DK, **Jenkinson CP**, Jhingan RM, Smokler D, Reyna S, Musi N, Khokka R, Federici M, Tripathy D, DeFronzo RA, Folli F. Impaired regulation of the TNF-alpha converting enzyme/tissue inhibitor of metalloproteinase 3 proteolytic system in skeletal muscle of obese type 2 diabetic patients: a new mechanism of insulin resistance in humans. *Diabetologia*. 2009 Oct;52(10):2169-81. PMID: 19633828
 52. Chavez AO, Kamath S, Jani R, Sharma LK, Monroy A, Abdul-Ghani MA, Centonze VE, Sathyanarayana P, Coletta DK, **Jenkinson CP**, Bai Y, Folli F, DeFronzo RA, Tripathy D. Effect of short-term free fatty acids elevation on mitochondrial function in skeletal muscle of healthy individuals. *J Clin Endocrinol Metab*. 2010 Jan;95(1):422-9. PMID: 19864449
 53. Folli F, Guzzi V, Perego L, Coletta DK, Finzi G, Placidi C, La Rosa S, Capella C, Socci C, Lauro D, Tripathy D, **Jenkinson CP**, Paroni R, Orsenigo E, Cighetti G, Gregorini L, Staudacher C, Secchi A, Bachi A, Brownlee M, Fiorina P. Proteomics reveals novel oxidative and glycolytic mechanisms in type 1 diabetic patients' skin which are normalized by kidney-pancreas transplantation. *PLoS One*. 2010 Mar 29;5(3):e9923. PMID: 20360867
 54. Puppala S, Coletta DK, Schneider J, Hu SL, Farook VS, Dyer TD, Arya R, Blangero J, Duggirala R, DeFronzo RA, **Jenkinson CP**. Genome-wide linkage screen for systolic blood pressure in the Veterans Administration Genetic Epidemiology Study (VAGES) of Mexican-Americans and confirmation of a major susceptibility locus on chromosome 6q14.1. *Human Heredity*. 2011;71(1):1-10. Epub 2011 Feb 5. PMID: 21293138

55. Kanat M, Winnier D, Norton L, Arar N, **Jenkinson CP**, DeFronzo RA, Abdul-Ghani MA. The relationship between beta-cell function and glycated hemoglobin: results from the veterans administration genetic epidemiology study. *Diabetes Care*. 2011 Apr;34(4):1006-10. Epub 2011 Feb 23. PMID: 21346184
56. Kanat M, Norton L, Winnier D, **Jenkinson CP**, DeFronzo RA and Muhammad A Abdul-Ghani MA. Impaired early but-not late-phase insulin secretion in subjects with impaired fasting glucose. *Acta Diabetol*. 48(3):209-17 2011 Sep. [Epub ahead of print] PMID: 21553243
57. Sobrin L, Green T, Sim X, Jensen RA, Tai ES, Tay WT, Wang JJ, Mitchell P, Sandholm N, Liu Y, Hietala K, Iyengar SK; Family Investigation of Nephropathy and Diabetes-Eye Research Group, Brooks M, Buraczynska M, Van Zuydam N, Smith AV, Gudnason V, Doney AS, Morris AD, Leese GP, Palmer CN; Wellcome Trust Case Control Consortium 2, Swaroop A, Taylor HA Jr, Wilson JG, Penman A, Chen CJ, Groop PH, Saw SM, Aung T, Klein BE, Rotter JI, Siscovick DS, Cotch MF, Klein R, Daly MJ, Wong TY. Candidate gene association study for diabetic retinopathy in persons with type 2 diabetes: the Candidate gene Association Resource (CARE). *Invest Ophthalmol Vis Sci*. 2011 Sep 29;52(10):7593-602. Print 2011 Sep. PMID: 21873659
58. Norton L, Fourcaudot M, Abdul-Ghani M, Winnier DA, Mehta FF, **Jenkinson CP** and DeFronzo RA; Chromatin occupancy of TCF7L2 and its role in hepatic glucose metabolism. *Diabetologia*, 2011 Dec;54(12):3132-42. PMID: 21901280
59. Kanat M, Mari A, Norton L, Winnier D, DeFronzo RA, **Jenkinson CP**, Abdul-Ghani MA. Distinct β -cell defects in impaired fasting glucose and impaired glucose tolerance. *Diabetes*. 2012 Feb;61(2):447-53. PMID: 22275086
60. Fowler SP, Puppala S, Arya R, Chittoor G, Farook VS, Schneider J, Resendez RG, Upadhayay RP, Vandeberg J, Hunt KJ, Bradshaw B, Cersosimo E, Vandeberg JL, Almasy L, Curran JE, Comuzzie AG, Lehman DM, **Jenkinson CP**, Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R. Genetic epidemiology of cardiometabolic risk factors and their clustering patterns in Mexican American children and adolescents: the SAFARI Study. *Hum Genet*. 2013 Jun 5. PMID: 23736306
61. Chittoor G, Farook VS, Puppala S, Fowler SP, Schneider J, Dyer TD, Cole SA, Lynch JL, Curran JE, Almasy L, Maccluer JW, Comuzzie AG, Hale DE, Ramamurthy RS, Dudley DJ, Moses EK, Arya R, Lehman DM, **Jenkinson CP**, Bradshaw BS, DeFronzo RA, Blangero J, Duggirala R. Localization of a major susceptibility locus influencing preterm birth. *Mol Hum Reprod*. 19 (10); 2013 Oct. PMID: 23689979
62. Tripathy D, Daniele G, Fiorentino TV, Perez-Cadena Z, Chavez-Velasquez A, Kamath S, Fanti P, **Jenkinson CP**, Andreozzi F, Federici M, Gastaldelli A, DeFronzo RA, Folli F, Pioglitazone improves glucose metabolism and modulates skeletal muscle TIMP-3-TACE dyad in type 2 diabetes mellitus: a randomised, double-blind, placebo-controlled, mechanistic study. *Diabetologia*. 2013 Jun 30 PMID: 23811853
63. Farook VS, Coletta DK, Puppala S, Schneider J, Hu SL, Winnier DS, Norton L, Dyer TD, Arya R, Cole S, Almasy L, Comuzzie AG, Curran J, Lehman D, Blangero J, Duggirala R, **Jenkinson CP**, DeFronzo RA. Linkage of type 2 diabetes on chromosome 9p24 in Mexican Americans: additional evidence from the Veterans Administration Genetic Epidemiology Study (VAGES). *Hum Hered*. 2013;76(1):36-46 PMID: 24060607

64. Farook VS, Puppala S, Schneider J, Fowler SP, Chittoor G, Dyer TD, Allayee H, Cole SA, Arya R, Black MH, Curran JE, Almasy L, Buchanan TA, **Jenkinson CP**, Lehman DM, Watanabe RM, Blangero J, Duggirala R. Metabolic syndrome is linked to chromosome 7q21 and associated with genetic variants in CD36 and GNAT3 in Mexican Americans. *Obesity (Silver Spring)*. 2012 Oct;20(10):2083-92. PMID: 22456541
65. SIGMA Type 2 Diabetes Consortium, Williams AL, Jacobs SB, Moreno-Macías H, Huerta-Chagoya A, Churchhouse C, Márquez-Luna C, García-Ortíz H, Gómez-Vázquez MJ, Burt NP, Aguilar-Salinas CA, González-Villalpando C, Florez JC, Orozco L, Haiman CA, Tusié-Luna T, Altshuler D, Márquez-Luna C, Huerta-Chagoya A, Ripke S, Gómez-Vázquez MJ, Manning AK, Moreno-Macías H, García-Ortíz H, Neale B, Aguilar-Salinas CA, Reich D, Stram DO, Fernández-López JC, Romero-Hidalgo S, Tusié-Luna T, Patterson N, Aguilar-Delfín I, Martínez-Hernández A, Centeno-Cruz F, Mendoza-Caamal E, Revilla-Monsalve C, Islas-Andrade S, Córdova E, Rodríguez-Arellano E, Soberón X, González-Villalpando C, González-Villalpando ME, Henderson BE, Monroe K, Wilkens L, Kolonel LN, Le Marchand L, Riba L, Ordóñez-Sánchez ML, Rodríguez-Guillén R, Cruz-Bautista I, Rodríguez-Torres M, Muñoz-Hernández LL, Sáenz T, Gómez D, Alvirde U, Onofrio RC, Brodeur WM, Gage D, Murphy J, Franklin J, Mahan S, Ardlie K, Crenshaw AT, Winckler W, Prüfer K, Shunkov MV, Sawyer S, Stenzel U, Kelso J, Lek M, Sankararaman S, MacArthur DG, Derevianko AP, Pääbo S, Jacobs SB, Gopal S, Grammatikos JA, Smith IC, Bullock KH, Deik AA, Souza AL, Pierce KA, Clish CB, Fennell T, Farjoun Y, Gabriel S, Gross MD, Pereira MA, Seielstad M, Koh WP, Tai ES, Flannick J, Fontanillas P, Morris A, Teslovich TM, Atzmon G, Blangero J, Bowden DW, Chambers J, Cho YS, Duggirala R, Glaser B, Hanis C, Kooner J, Laakso M, Lee JY, Tai ES, Teo YY, Wilson JG, Henderson BE, Monroe K, Wilkens L, Kolonel LN, Le Marchand L, Puppala S, Farook VS, Thameem F, Abboud HE, DeFronzo RA, **Jenkinson CP**, Lehman DM, Curran JE, Cortes ML, Orozco L, Sequence variants in SLC16A11 are a common risk factor for type 2 diabetes in Mexico. *Nature*, 2013 Dec 25 PMID: 24390345
66. Daniele G, Guardado Mendoza R, Winnier D, Fiorentino TV, Pengou Z, Cornell J, Andreozzi F, **Jenkinson CP**, Cersosimo E, Federici M, Tripathy D, Folli F. The Inflammatory status score including IL-6, TNF- α , osteopontin, fractalkine, mcp-1 and adiponectin, underlies insulin resistance and hyperglycemia in type 2 diabetes mellitus. *Acta Diabetol*. Feb 2014, 51(1), 123-131. PMID: 24370923
67. Winnier D, Norton L, Kanat M, Arya R, Fourcaudot M, Hansis-Diarte A, Tripathy D, DeFronzo RA, **Jenkinson CP**, Abdul-Ghani M. Strong association between insulin-mediated glucose uptake and 2-hour, but not the fasting plasma glucose concentration in the normal glucose tolerance range. *The Journal of Clinical Endocrinology & Metabolism*, J Clin Endocrinol Metab. 2014 Sep;99(9):3444-9. PMID: 24796924
68. SIGMA Type 2 Diabetes Consortium, Estrada K, Aukrust I, Bjørkhaug L, Burt NP, Mercader JM, García-Ortiz H, Huerta-Chagoya A, Moreno-Macías H, Walford G, Flannick J, Williams AL, Gómez-Vázquez MJ, Fernandez-Lopez JC, Martínez-Hernández A, Centeno-Cruz F, Mendoza-Caamal E, Revilla-Monsalve C, Islas-Andrade S, Córdova EJ, Soberón X, González-Villalpando ME, Henderson E, Wilkens LR, Le Marchand L, Arellano-Campos O, Ordóñez-Sánchez ML, Rodríguez-Torres M, Rodríguez-Guillén R, Riba L, Najmi LA, Jacobs SB, Fennell T, Gabriel S, Fontanillas P, Hanis CL, Lehman DM, **Jenkinson CP**, Abboud HE, Bell GI, Cortes ML, Boehnke M, González-Villalpando C, Orozco L, Haiman CA, Tusié-Luna T, Aguilar-Salinas CA, Altshuler D, Njølstad PR, Florez JC, MacArthur DG, Jiménez-Morales S. Association of a low-frequency variant in HNF1A with type 2 diabetes in a Latino population. *JAMA*. Jun 2014; 311(22):2305-14.

69. Daniele G, Winnier D, Mari A, Bruder J, Fourcaudot M, Pengou Z, Tripathy D, **Jenkinson C**, Folli F. Sclerostin and insulin resistance in prediabetes: evidence of a cross talk between bone and glucose metabolism. *Diabetes Care*. 2015 Aug;38(8):1509-17. doi: 10.2337/dc14-2989. Epub 2015 Jun 17. PMID:26084344
70. Mahajan A, Sim X, Ng HJ, Manning A, Rivas MA, Highland HM, Locke AE, Grarup N, Im HK, Cingolani P, Flannick J, Fontanillas P, Fuchsberger C, Gaulton KJ, Teslovich TM, Rayner NW, Robertson NR, Beer NL, Rundle JK, Bork-Jensen J, Ladenvall C, Blancher C, Buck D, Buck G, Burt NP, Gabriel S, Gjesing AP, Groves CJ, Hollensted M, Huyghe JR, Jackson AU, Jun G, Justesen JM, Mangino M, Murphy J, Neville M, Onofrio, Small KS, Stringham HM, Syvänen AC, Trakalo J, Abecasis G, Bell GI, Blangero J, Cox NJ, Duggirala R, Hanis CL, Seielstad M, Wilson JG, Christensen C, Brandslund I, Rauramaa R, Surdulescu GL, Doney AS, Lannfelt L, Linneberg A, Isomaa B, Tuomi T, Jørgensen ME, Jørgensen T, Kuusisto J, Uusitupa M, Salomaa V, Spector TD, Morris AD, Palmer CN, Collins FS, Mohlke KL, Bergman RN, Ingelsson E, Lind L, Tuomilehto J, Hansen T, Watanabe RM, Prokopenko I, Dupuis J, Karpe F, Groop L, Laakso M, Pedersen O, Florez JC, Morris AP, Altshuler D, Meigs JB, Boehnke M, McCarthy MI, Lindgren CM, Gloyn AL; T2D-GENES consortium and GoT2D consortium. (**Jenkinson CP**, member of T2D-GENES Consortium; VAGES data used in the replication dataset). Identification and functional characterization of G6PC2 coding variants influencing glycemic traits define an effector transcript at the g6pc2-abcb11 locus. *PLoS Genet*. 2015 Jan 27;11(1):e1004876. doi: 10.1371/journal.pgen.1004876. eCollection 2015.
71. Farook VS, Reddivari L, Geetha Chittoor G, Puppala S, Arya R, Fowler SP, Hunt KJ, Curran JE, Comuzzie AG, Lehman DM, **Jenkinson CP**, Lynch JL, DeFronzo RA, Blangero J, Hale DE, Duggirala R, Vanamala J. Metabolites as novel biomarkers for childhood obesity-related traits in Mexican American children, International Pediatric Obesity, 2015, Aug 10(4):320-7. Epub Nov 18. . PubMed PMID: 25405847; PubMed Central PMCID: PMC4436034.
72. Winnier DA, Fourcaudot M, Norton L, Abdul-Ghani MA, Hu SL, Farook VS, Coletta DK, Kumar S, Sobha Puppala S, Chittoor G, Dyer TD, Arya R, Carless MA, Lehman DM, Curran JE, Cromack DT, Tripathy D, Blangero J, Duggirala R, Göring HH, DeFronzo RA, **Jenkinson CP**. Transcriptomic identification of *ADH1B* as a novel candidate gene for obesity and insulin resistance in human adipose tissue in Mexican Americans from the Veterans Administration Genetic Epidemiology Study (VAGES). *PLoS ONE*, 2015. Apr 1;10(4):e0119941. PMID: 25830378
73. Arya R, Del Rincon I, Farook VS, Restrepo JF, Winnier DA, Fourcaudot MJ, Battafarano DF, de Almeida M, Kumar S, Curran JE, **Jenkinson CP**, Blangero J, Duggirala R, Escalante A. Genetic variants influencing joint damage in Mexican Americans and European Americans with rheumatoid arthritis. *Genet Epidemiol*. 2015 Dec;39(8):678-88. doi: 10.1002/gepi.21938. Epub 2015 Oct 26. PMID:26498133
74. **Jenkinson, CP**, Göring, HHH, Arya, R, Blangero, J, Duggirala, R, Ralph A. DeFronzo, RA. Review: Transcriptomics in type 2 diabetes: Bridging the gap between genotype and phenotype. *Genom Data*. 2015 Dec 17;8:25-36. doi: 10.1016/j.gdata.2015.12.001. eCollection 2016 Jun. PMID: 27114903
75. Horikoshi M, Pasquali L, Wiltshire S, Huyghe JR, Mahajan A, Asimit JL, Ferreira T, Locke AE, Robertson NR, Wang X, Sim X, Fujita H, Hara K, Young R, Zhang W, Choi S, Chen H, Kaur I,

Takeuchi F, Fontanillas P, Thuillier D, Yengo L, Below JE, Tam CH, Wu Y, Abecasis G, Altshuler D, Bell GI, Blangero J, Burt NP, Duggirala R, Florez JC, Hanis CL, Seielstad M, Atzmon G, Chan JC, Ma RC, Froguel P, Wilson JG, Bharadwaj D, Dupuis J, Meigs JB, Cho YS, Park T, Kooner JS, Chambers JC, Saleheen D, Kadowaki T, Tai ES, Mohlke KL, Cox NJ, Ferrer J, Zeggini E, Kato N, Teo YY, Boehnke M, McCarthy MI, Morris AP; T2D-GENES Consortium, et al. Transancestral fine-mapping of four type 2 diabetes susceptibility loci highlights potential causal regulatory mechanisms. (**Jenkinson CP**, collaborator). *Hum Mol Genet*. 2016 Feb 23. pii: ddw048. [Epub ahead of print]

76. Fuchsberger, C, Flannick, J, Teslovich, TM, Mahajan, A, Agarwala, V, Gaulton, KJ, Ma, C, Fontanillas, P, Moutsianas, L, McCarthy, DJ, Rivas, MA, Perry, JRB, Sim, X, Blackwell, TW, Robertson, NR, Rayner, NW, Cingolani, P, Locke, AE, Tajos, JF, Highland, HM, Dupuis, J, Chines, PS, Lindgren, CM, Hartl, C, Jackson, AU, Chen, H, Huyghe, JR, van de Bunt, M, Pearson, RD, Kumar, A, Müller-Nurasyid, M, Grarup, N, Stringham, HM, Gamazon, ER, Lee, J, Chen, Y, Scott, RA, Below, JE, Chen, P, Huang, J, Go, MJ, Stitzel, ML, Pasko, D, Parker, SCJ, Varga, TV, Green, T, Beer, NL, Day-Williams, AG, Ferreira, T, Fingerlin, T, Horikoshi, M, Hu, C, Huh, I, Ikram, MK, Kim, B-J, Kim, Y, Jin Kim, YJ, Kwon, M-S, Lee, J, Lee, S, Lin, K-H, Maxwell, TJ, Nagai, Y, Wang, X, Welch, RP, Yoon, J, Zhang, W, Barzilai, N, Voight, BF, Han, B-G, **Jenkinson, CP**, Kuulasmaa, T, Kuusisto, J, Manning, A, Ng, MCY, Palmer, ND, Balkau, B, Stančáková, A, Abboud, HE, Boeing, H, Giedraitis, V, Prabhakaran, D, Gottesman, O, Scott, J, Carey, J, Kwan, P, Grant, G, Smith, JD, Neale, BM, Purcell, S, Butterworth, AS, Howson, JMM, Lee, HM, Lu, Y, Kwak, S-H, Zhao, W, Danesh, J, Lam, VKL, Park, KS, Saleheen, D, So, WY, Tam, CHT, Afzal, U, Aguilar, D, Arya, R, Aung, T, Chan, E, Navarro, C, Cheng, C-Y, Palli, D, Correa, A, Curran, JE, Rybin, D, Farook, VS, Fowler, SP, Freedman, BI, Griswold, M, Hale, DE, Hicks, PJ, Khor, C-C, Kumar, S, Lehne, B, Thuillier, D, Lim, WY, Liu, J, van der Schouw, YT, Loh, M, Musani, SK, Puppala, S, Scott, WR, Yengo, L, Tan, S-T, Taylor Jr., HA, Thameem, F, Wilson, G, Wong, TY, Njølstad, R, Levy, JC, Mangino, M, Bonnycastle, LL, Schwarzmayr, T, Fadista, J, Surdulescu, GL, Herder, C, Groves, CJ, Wieland, T, Bork-Jensen, J, Brandslund, I, Christensen, C, Koistinen, HA, Doney, ASF, Kinnunen, L, Esko, T, Farmer, AJ, Hakaste, L, Hodgkiss, D, Kravic, J, Lyssenko, V, Hollensted, M, Jørgensen, ME, Jørgensen, T, Ladenvall, C, Justesen, JM, Käräjämäki, A, Kriebel, J, Rathmann, W, Lannfelt, L, Lauritzen, T, Narisu, N, Linneberg, A, Melander, O, Milani, L, Neville, M, Orho-Melander, M, Qi, L, Qi, Q, Roden, M, Rolandsson, O, Swift, A, Rosengren, AH, Stirrups, K, Wood, AR, Mihailov, E, Blanche, C, Carneiro, MO, Maguire, J, Poplin, R, Shakir, K, Fennell, T, DePristo, M, de Angelis, MH, Deloukas, P, Gjesing, AP, Jun, G, Nilsson, P, Murphy, J, Onofrio, R, Thorand, B, Hansen, T, Meisinger, C, Hu, FB, Isomaa, B, Karpe, F, Liang, L, Peters, A, Huth, C, O'Rahilly, SP, Palmer, CAN, Pedersen, O, Rauramaa, R, Tuomilehto, J, Salomaa, V, Watanabe, RM, Syvänen, A-C, Bergman, RN, Bharadwaj, D, Bottinger, EP, Cho, YS, Chandak, GR, Chan, JCN, Chia, KS, Daly, MJ, Ebrahim, SB, Langenberg, C, Elliott, P, Jablonski, KA, Lehman, DM, Jia, W, Ma, RCW, Pollin, TI, Sandhu, M, Tandon, N, Froguel, P, Barroso, I, Teo, YY, Zeggini, E, RJF, Small, KS, Ried, JS, DeFronzo, RA, Grallert, H, Glaser, B, Metspalu, A, Wareham, NJ, Walker, M, Banks, E, Gieger, C, Ingelsson, E, Im, HK, Illig, T, Frank, PW, Buck, G, Trakalo, J, Buck, D, Prokopenko, I, Mägi, R, Lind, L, Farjoun, Y, Owen, KR, Gloyn, AL, Strauch, K, Tuomi, T, Kooner, JS, Lee, J-Y, Park, T, Donnelly, P, Morris, AD, Hattersley, AT, Bowden, DW, Collins, FS, Atzmon, G, Chambers, JC, Spector, TD, Laakso, M, Strom, TM, Bell, GI, Blangero, J, Duggirala, R, Tai, ES, McVean, G, Hanis, CL, Wilson, JG, Seielstad, M, Frayling, TM, Meigs, JB, Cox, NJ, Sladek, R, Lander, ES, Gabriel, S, Burt, NP, Mohlke, KL, Meitinger, T, Groop, L, Abecasis, G, Florez, JC, Scott, LJ, Morris, AP, Kang, HM, Boehnke, M, Altshuler, D, Mark I. McCarthy, MI. The genetic architecture of type 2 diabetes. *Nature* (2016) doi:10.1038/nature18642; Received 20 May 2015, Accepted 12 June 2016 Published online 11 July 2016

77. Blangero J, Teslovich TM, Sim X, Almeida MA, Jun G, Dyer TD, Johnson M, Peralta JM, Manning A, Wood AR, Fuchsberger C, Kent JW Jr, Aguilar DA, Below JE, Farook VS, Arya R, Fowler S, Blackwell TW, Puppala S, Kumar S, Glahn DC, Moses EK, Curran JE, Thameem F, **Jenkinson CP**, DeFronzo RA, Lehman DM, Hanis C, Abecasis G, Boehnke M, Göring H, Duggirala R, Almasy L; T2D-GENES Consortium. Omics-squared: human genomic, transcriptomic and phenotypic data for genetic analysis workshop 19. *BMC Proc.* 2016 Oct 18;10(Suppl 7):71-77. PMID: 27980614

78. Lek M, Karczewski KJ, Minikel EV, Samocha KE, Banks E, Fennell T, O'Donnell-Luria AH, Ware JS, Hill AJ, Cummings BB, Tukiainen T, Birnbaum DP, Kosmicki JA, Duncan LE, Estrada K, Zhao F, Zou J, Pierce-Hoffman E, Berghout J, Cooper DN, Deflaux N, DePristo M, Do R, Flannick J, Fromer M, Gauthier L, Goldstein J, Gupta N, Howrigan D, Kiezun A, Kurki MI, Moonshine AL, Natarajan P, Orozco L, Peloso GM, Poplin R, Rivas MA, Ruano-Rubio V, Rose SA, Ruderfer DM, Shakir K, Stenson PD, Stevens C, Thomas BP, Tiao G, Tusie-Luna MT, Weisburd B, Won HH, Yu D, Altshuler DM, Ardissino D, Boehnke M, Danesh J, Donnelly S, Elosua R, Florez JC, Gabriel SB, Getz G, Glatt SJ, Hultman CM, Kathiresan S, Laakso M, McCarroll S, McCarthy MI, McGovern D, McPherson R, Neale BM, Palotie A, Purcell SM, Saleheen D, Scharf JM, Sklar P, Sullivan PF, Tuomilehto J, Tsuang MT, Watkins HC, Wilson JG, Daly MJ, MacArthur DG; Exome Aggregation Consortium. (plus 175 collaborators; **Jenkinson CP**). Analysis of protein-coding genetic variation in 60,706 humans. *Nature.* 2016 Aug 18;536(7616):285-91. doi: 10.1038/nature19057.

79. Manning A, Highland HM, Gasser J, Sim X, Tukiainen T, Fontanillas P, Grarup N, Rivas MA, Mahajan A, Locke AE, Cingolani P, Pers TH, Viñuela A, Brown AA, Wu Y, Flannick J, Fuchsberger C, Gamazon ER, Gaulton KJ, Im HK, Teslovich TM, Blackwell TW, Bork-Jensen J, Burt NP, Chen Y, Green T, Hartl C, Kang HM, Kumar A, Ladenvall C, Ma C, Moutsianas L, Pearson RD, Perry JR, Rayner NW, Robertson NR, Scott LJ, van de Bunt M, Eriksson JG, Jula A, Koskinen S, Lehtimäki T, Palotie A, Raitakari OT, Jacobs SB, Wessel J, Chu AY, Scott RA, Goodarzi MO, Blancher C, Buck G, Buck D, Chines PS, Gabriel S, Gjesing AP, Groves CJ, Hollensted M, Huyghe JR, Jackson AU, Jun G, Justesen JM, Mangino M, Murphy J, Neville M, Onofrio R, Small KS, Stringham HM, Trakalo J, Banks E, Carey J, Carneiro MO, DePristo M, Farjoun Y, Fennell T, Goldstein JI, Grant G, Hrabé de Angelis M, Maguire J, Neale BM, Poplin R, Purcell S, Schwarzmayr T, Shakir K, Smith JD, Strom TM, Wieland T, Lindstrom J, Brandslund I, Christensen C, Surdulescu GL, Lakka TA, Doney AS, Nilsson P, Wareham NJ, Langenberg C, Varga TV, Franks PW, Rolandsson O, Rosengren AH, Farook VS, Thameem F, Puppala S, Kumar S, Lehman DM, **Jenkinson CP**, Curran JE, Hale DE, Fowler SP, Arya R, DeFronzo RA, Abboud HE, Syvänen AC, Hicks PJ, Palmer ND, Ng MC, Bowden DW, Freedman BI, Esko T, Mägi R, Milani L, Mihailov E, Metspalu A, Narisu N, Kinnunen L, Bonnycastle LL, Swift A, Pasko D, Wood AR, Fadista J, Pollin TI, Barzilai N, Atzmon G, Glaser B, Thorand B, Strauch K, Peters A, Roden M, Müller-Nurasyid M, Liang L, Kriebel J, Illig T, Grallert H, Gieger C, Meisinger C, Lannfelt L, Musani SK, Griswold M, Taylor HA Jr, Wilson G Sr, Correa A, Oksa H, Scott WR, Afzal U, Tan ST, Loh M, Chambers JC, Sehmi J, Kooner JS, Lehne B, Cho YS, Lee JY, Han BG, Käräjämäki A, Qi Q, Qi L, Huang J, Hu FB, Melander O, Orho-Melander M, Below JE, Aguilar D, Wong TY, Liu J, Khor CC, Chia KS, Lim WY, Cheng CY, Chan E, Tai ES, Aung T, Linneberg A, Isomaa B, Meitinger T, Tuomi T, Hakaste L, Kravic J, Jørgensen ME, Lauritzen T, Deloukas P, Stirrups KE, Owen KR, Farmer AJ, Frayling TM, O'Rahilly SP, Walker M, Levy JC, Hodgkiss D, Hattersley AT, Kuulasmaa T, Stančáková A, Barroso I, Bharadwaj D, Chan J, Chandak GR, Daly MJ, Donnelly PJ, Ebrahim SB, Elliott P, Fingerlin T, Froguel P, Hu C, Jia W, Ma RC, McVean G, Park T, Prabhakaran D, Sandhu M, Scott J, Sladek R, Tandon N, Teo YY, Zeggini E, Watanabe RM, Koistinen HA, Kesaniemi YA,

Uusitupa M, Spector TD, Salomaa V, Rauramaa R, Palmer CN, Prokopenko I, Morris AD, Bergman RN, Collins FS, Lind L, Ingelsson E, Tuomilehto J, Karpe F, Groop L, Jørgensen T, Hansen T, Pedersen O, Kuusisto J, Abecasis G, Bell GI, Blangero J, Cox NJ, Duggirala R, Seielstad M, Wilson JG, Dupuis J, Ripatti S, Hanis CL, Florez JC, Mohlke KL, Meigs JB, Laakso M, Morris AP, Boehnke M, Altshuler D, McCarthy MI, Gloyn AL, Lindgren CM. A low-frequency inactivating *Akt2* variant enriched in the Finnish population is associated with fasting insulin levels and type 2 diabetes risk. *Diabetes*. 2017 Mar 24. pii: db161329. doi: 10.2337/db16-1329. [Epub ahead of print]. PMID: 28341696.

80. Schumann U, **Jenkinson CP**, Alt A, Zügel M, Steinacker JM, and Flechtner-Mors M. Sympathetic nervous system activity and anti-lipolytic response to iv-glucose load in subcutaneous adipose tissue of obese and obese type 2 diabetic subjects. *PLoS One* 12 (3):e0173803, 2017.
81. Vidya S. Farook, Lavanya Reddivari, Srinivas Mummidi, Sobha Puppala, Rector Arya, Juan Carlos Lopez-Alvarenga, Sharon P. Fowler, Geetha Chittoor, Roy G. Resendez, Birunda Mohan Kumar, Anthony G. Comuzzie, Joanne E. Curran, Donna M. Lehman, **Christopher P. Jenkinson**, Jane L. Lynch, Ralph A. DeFronzo, John Blangero, Daniel E. Hale, Ravindranath Duggirala. Genetics of Serum Carotenoid Levels and Their Correlation with Obesity Related Traits in Mexican American Children. *American Journal of Clinical Nutrition*. (In Press).

Books/Chapters:

1. **Jenkinson CP**. Mammary arginase in the rat. Dunedin, New Zealand: University of Otago Press; 1993. 200 pp.
2. **Jenkinson CP**. The synthesis of oligodeoxyribonucleotides and its application to the site-specific mutagenesis of bacteriophage f1. Dunedin, New Zealand: University of Otago Press; 1985. 150 p.
3. Arya R, Puppala S, Farook VS, Chittoor G, **Jenkinson CP**, Blangero J, Hale DE, Duggirala R and Laura Almasy. Chapter: Mapping of susceptibility genes for obesity, type 2 diabetes, and the metabolic syndrome in human populations. In: *Genome Mapping and Genomics in Human and Non-Human Primates*, 1, *Genome Mapping and Genomics in Animals* 5. R. Duggirala et al. (eds.) Springer-Verlag Berlin Heidelberg. Chapter 12, Volume 5, 181-245, 2015 (DOI 10.1007/978-3-662-46306-2_12)

INVITED PRESENTATIONS

- | | |
|----------------|--|
| 06/1998 | “Novel Polymorphisms in NPY5R: Association with Obesity in Pima Indians”.
8th International Congress on Obesity, Paris, France |
| 06/2001 | “Relationship between Insulin Stimulation of Insulin Receptor Tyrosine Phosphorylation and Glucose Disposal in Human Skeletal Muscle”.
American Diabetes Association, 61st Scientific Sessions Philadelphia, PA, |
| 03/2002 | “The Genetics of Type 2 Diabetes”,
Department of Medicine, UTHSCSA, San Antonio, TX |
| 11/2002 | “The Genetics of Type 2 Diabetes”
Grand Rounds, Endocrinology/Diabetes Divisions, UTHSCSA |

10/2003 "Molecular Genetics of Type 2 Diabetes"
Department of Medicine, UTHSCSA, San Antonio, TX

11/2003 "Type 2 Diabetes: Good Genes in a World Gone Bad"
Department of Pediatrics, UTHSCSA, San Antonio, TX

12/2003 "Diabesity and Chromosome 6q23: Recent Findings"
Grand Rounds, Department of Pediatrics, Division of Genetics, UTHSCSA

12/2003 "Diabesity and Chromosome 6q23: Recent Findings"
Division of Clinical Epidemiology Seminar, UTHSCSA, San Antonio, TX

03/2004 "DNA and Dentistry: Application of Microarrays for Disease Gene Identification"
Innovative Scientific Sessions, School of Dentistry, UTHSCSA, San Antonio

03/2004 "The Use of DNA Microarrays to Identify Complex Disease Genes"
International Workshop on Genetics of Complex Diseases, Andhra Medical College, Visakhapatnam, Andhra Pradesh, India

04/2004 "Identification of Diabesity Genes at Chromosome 6q23"
International Workshop on Genetics of Complex Diseases, Andhra Medical College, Visakhapatnam, Andhra Pradesh, India

10/2004 "Comprehensive Analysis of SNPs in ENPP1: Association with Diabesity"
American Society of Human Genetics, Toronto, Canada

02/2005 "Approaches to complex disease gene identification: 6q23 & DNA microarrays"
Genetics Journal Club, UTHSCSA, San Antonio, TX

03/2005 "Affymetrix DNA Microarrays: Applications and Analysis"
Childrens Cancer Research Institute, San Antonio, TX

03/2005 "Identification of Diabesity Genes on Chromosome 6 in Mexican Americans"
Southwest Foundation for Biomedical Research, San Antonio, TX

09/2005 "Adiponectin receptors gene expression and insulin sensitivity"
International Symposium: "Genetics of Common Complex Diseases"
Universidad Autonoma de Nuevo Leon, Monterrey, Mexico

12/2005 "PC-1/ENPP1: Lessons from the San Antonio Family Diabetes Study"
Istituto CSS – Mendel Viale Regina Margherita, Rome, Italy

02/2006 "Disease Gene Identification: Linkage and Microarrays"
Computer Science Department, UTSA, San Antonio, TX

06/2006 "The Affymetrix Microarray Core"
Issues and Methods in Genomics and Proteomics, UTHSCSA/UTSA

06/2007 "Identification of Multiple Genes Contributing to Type 2 Diabetes and Obesity Related Traits at Chromosome 6q23 in Mexican Americans"

American Diabetes Association, Chicago, IL

- 10/2007** "Molecular genetics of T2D and the metabolic syndrome: cardiological implications",
Division of Cardiology UTHSCSA, San Antonio, TX
- 04/2008** "Genetics of type II diabetes and the metabolic syndrome in Mexican Americans"
American Association of Physical Anthropologists, Columbus, OH
- 04/2008** "Molecular genetics of T2D and the metabolic syndrome: hematological implications"
Division of Hematology/Oncology, UTHSCSA, San Antonio, TX
- 09/2010** "Mapping Type 2 Diabetes Genes: Genome-Wide Association Studies and the Hunt for the Dark Matter of the Genome"
Plenary Speaker; Queenstown Molecular Biology Conference; MapNet Satellite Meeting; Queenstown, New Zealand.
- 10/2010** "Mapping Type 2 Diabetes Genes: Illuminating the Dark Matter of the Genome"
Seminar, Biochemistry Department, University of Otago, Dunedin, New Zealand.
- 11/2010** "Mapping Type 2 Diabetes Genes: Illuminating the Dark Matter of the Genome",
Seminar, University of Otago Medical school, Christchurch, New Zealand.
- 12/2010** "Recent Major Changes in Complex Disease Research",
Keynote Speaker; Medical Sciences Congress (MedSciNZ2010); Queenstown, New Zealand.
- 07/2011** "Principles of Genetics",
Diabetes Lecture Series, UTHSCSA; 2 hour talk
- 07/2011** "Principles of Genetics and Relevance to Diabetic Nephropathy"
Renal Grand Rounds, Division of Nephrology, UTHSCSA
- 10/2011** "T2D Genetics: The Exploding Phenotype"
Research Seminar, Department of Medicine, UTHSCSA.
- 11/2012** Update on the Genetics of Type 2 Diabetes
Endocrine Grand Rounds, Endocrine Clinical Fellows, UTHSCSA
- 7/2016** Transcriptomic identification of a novel candidate gene for obesity.
International Conference on Obesity and Chronic Diseases (ICOCD): Link between Childhood and Adult Obesity and Other Chronic Diseases, Las Vegas, 2016

PROFESSIONAL ACTIVITIES

Professional Membership

01/1994-Present	American Association for the Advancement of Science
01/1995-12/1999	American Society of Biochemistry and Molecular Biology
06/1996-Present	American Society of Human Genetics
03/2000-12/2003	Association of Biomolecular Resource Facilities (ABRF)
03/2000-Present	American Diabetes Association Member Council member: Section on Epidemiology and Genetics
06/2001-2008	Texas Genetics Society
01/2005-2010	San Antonio Cancer Institute
02/2008-2015	American Association of Physical Anthropology

Manuscript Review

- Diabetes
- Obesity
- Obesity Research
- The Journal of Clinical Endocrinology & Metabolism
- Hypertension
- Diabetic Medicine
- Trends in Endocrinology and Metabolism
- Biochemical and Biophysical Research Communications
- Biochemical Medicine and Metabolic Biology
- Pharmacogenomics
- Comparative Biochemistry and Physiology
- Veterinarni Medicina
- Cancer Therapy
- Molecular Psychiatry
- BioMed Central: Medical Genetics
- PeerJ

National/International: Editor, Reviews, Consultancy, Awards

01/2003-12/2003	Grant Review Board, Spanish Government, "Ministerio De Ciencia Y Tecnología", Spain
01/2004-12/2004	Grant Review Board, Wellcome Trust, UK
01/2004-03/2004	Organizing Committee, "International Workshop on Genetics of Complex Diseases with an Emphasis on Type 2 Diabetes Mellitus", March 30-April 1, 2004, Andhra Medical College, Visakhapatnam, India
03/2004-Present	Advisory Committee Member, Family Investigation of Nephropathy in Diabetes (FIND); NIDDK
03/2004-Present	Candidate Gene Selection Committee, (FIND) NIDDK
01/2005-12/2005	Grant Review Board, Raine Medical Research Foundation, University of Western Australia
01/2005-12/2006	Grant Review Board, Pennsylvania Department of Health "Centers of Excellence for Research on Obesity"
01/2007-12/2010	American Diabetes Association (ADA) Research Grant Review Panel
01/2007-01/2010	ADA Outstanding Scientific Achievement Award Review Panel

01/2007-2010	VA Merit Review Board, Endocrinology A Study Section
2009-2014	Research Career Scientist award, VA
2009-2014	Adjunct Scientist, Southwest Foundation for Biomedical Research
07/2009-Present	Associate Editor, BioMed Central: Medical Genetics, London, UK
01/2010-Present	NIH Center Sci Review (CSR) National Registry of Volunteer Reviewers
06/2010-2011	Awarded prestigious William Evans Visiting Fellowship from the University of Otago, New Zealand, to assist with costs associated with research in the Biochemistry Department, School of Medical Sciences, University of Otago, for 6 months from August 1st 2010. The objective of this leave was to undertake collaborative studies, closely related to research at the UTHSCSA, with Associate Professor Tony Merriman, PhD. Dr. Merriman has pioneered population and molecular genetic studies of type 2 diabetes and related metabolic abnormalities in the New Zealand Maori population.
06/2010-2011	Awarded a VA Education Advancement and Development Award for leave to conduct research at Otago University, New Zealand
06/2010-2011	Awarded Faculty Development Leave by the UTHSCSA Department of Medicine for leave to conduct research at Otago University, New Zealand
1/2011	Request to review Biotechnology and Biological Sciences Research Committee (BBSRC) Animal Systems, Health and Wellbeing Committee research grant; UK.
2010-present	Type 2 Diabetes Genetic Exploration by Next-generation sequencing in multiEthnic Samples (T2D-GENES) "T2D-GENES Project/ Consortium", Steering Committee Member
05/2012	NIH Kidney Nutrition, Obesity and Diabetes (KNOD) Study Section, Santa Monica California, Ad hoc member
2015-present	Member NIDDK AMP-T2D-GENES Annotation Data Committee
2015-present	Member NIDDK Accelerating Medicines Partnership in Type 2 Diabetes Genetic Exploration by Next-generation sequencing in multiEthnic Samples (AMP T2D-GENES) Steering Committee

Community Service: Media Interviews

- "Medical Report: The Diabetes Epidemic" On camera interview, KENS5 EyeWitness News (6/2006)
- "Medical Report: Diabetes Gene Discovery" On camera interview, KENS5 (CBS) EyeWitness News (2/12/2007)
- "Diabetes Detectives" Vanguard, UTHSCSA Magazine article on Dr. Jenkinson's research group (2009)
- "The Diabetes Epidemic" article on Dr. Jenkinson's research and the international diabetes epidemic. The Otago Daily Times, Dunedin, New Zealand. (2010)