CHRISTOPHER P. JENKINSON, PH.D.
Professor (Tenured)
South Texas Diabetes and Obesity Institute (STDOI)
Department of Human Genetics
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Prepared: 12/12/19

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

1984-1986 **Masters 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 Med 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
2017–present **Professor, with tenure,** Department of Medicine, School of Medicine, UTRGV
2017-present **Member, UTRGV School of Medicine, Committee on Committees**
2018-present **Member, UTRGV School of Medicine, Admissions Committee**
2018-present **Member Department of Human Genetics Tenure and Promotions Committee**

TEACHING

(i) Mentor Junior Faculty

Deidre Winnier, PhD, Instructor, 2010-2014
Dr. Winnier was a Post-doctoral Fellow in Dr. Jenkinson's laboratory when she was promoted to Instructor in 2010.

Luke Norton, PhD, Instructor, 2010-2012
Dr. Norton was a Post-doctoral Fellow in Dr. Jenkinson's laboratory when he was promoted to Instructor in 2010.

Thameem Farook, Ph.D., Assistant Professor, 2004-2012
Dr. Thameem Farook was appointed, in 2004, as an Assistant Professor, in the Division of Nephrology, UTHSCSA. He was awarded a UTHSCSA Executive Research Committee grant, a Junior Faculty Development Program Award, from the South Texas Health Research Center and a K12 Program Clinical and Translational Science Award

Dawn Coletta, Ph.D., Assistant Professor, 2006-2007
Dr. Coletta (nee Richardson) was a Post-doctoral Fellow in Dr. Jenkinson's laboratory when she was promoted to Assistant Professor. In 2007, she was awarded an American Heart Association, Scientist Development Grant: "Role of Adiponectin Receptor 2 in the Insulin Resistance Syndrome" (1/07-12/10). Dr. Coletta is an Assistant Professor with an independent research laboratory in the School of Life Sciences, Arizona State University, Phoenix.

(ii) Undergraduate Student Supervision:

Name	Status	Dates
Nicole Dewath Garrison	PhD	10/04 - 12/05

UTSA BS Honors student. Supervisor, Honors laboratory project thesis, "Whole genome amplification of scarce human genomic DNA using multiple displacement amplification allows for accurate, high throughput SNP and microsatellite genotyping"; Hons thesis colloquium, UTSA, May 5, 2005.

Jeaneen Bailey	MS	2005-2006
Joshua Garcia	PhD	2005-2006
Ella Mengyao Li	PhD	2008 2009

lab rotation, Metabolism & Metabolic Disease multidisciplinary postgraduate track

Ruth Arya	MPH	2010-2012
Laura Reyes	MPH	2010-2011

MPH student practicum for the spring 2011 spring semester

Edna Judith Nava González	NC (MPH)	2013-2014
Visiting PhD student from the University of Nuevo Leon School of Nursing, Mexico		
Sarah Alden	(graduate student from Michael Crawford's lab)	2016-2017
Naba Assif	Pre-med (laboratory methods and projects)	2016-2017
Adithya Mummidi (mol genetic studies of obesity and insulin resistance)		2016-2018
Zhikynah May Lamsis: molecular genetic studies of obesity		2018-2019
Adam Kvinta, 1st year Med Student: molecular genetic studies of obesity		2019

(iii) Post-Doctoral Trainees:

Name	Status	Dates
Dawn Richardson, PhD	Post-Doctoral	2003-2006
Yanji Xu, PhD	Post-Doctoral	2005-2006
Ramana Gutala, PhD,	Post-Doctoral	2005-2006
Sathyanarayana Padma, PhD,	Post-Doctoral	2006-2007
Luke Norton, PhD	Post-Doctoral	2007-2010
Deidre Winnier, PhD	Post-Doctoral	2007-2010

(iv) Individual Training, informal

2000–2015	Molecular Genetics, Experimental Methods and Technology, UTHSCSA Post-doctoral and Clinical Fellows, database manager, data entry personnel, genetic study recruiters, study coordinators, laboratory technicians
2001-2007	DNA Microarray Experimental Methods and Technology, VA/UTHSCSA Molecular Genetics Core clients (~120 faculty and staff)
2005-2015	Molecular Genetics research and grant Mentor, Diabetes Division Faculty Consultation, protocols, support letters, presentation slides, data, equipment, skilled lab staff, lab space, staff training; Diabetes faculty: Drs. Folli, Cusi, Musi, Abdul-Ghani, Tripathy (see below)

(v) Group Instruction:

Date	Course
2005–2010	Computational and Systems Biology Course, UTHSCSA Bioinformatics, computational biology and biostatistics
2005-2010	Masters Course in Clinical Investigation, UTHSCSA M.D. graduate students: Introduction to clinical research
2011-2015	Diabetes Lecture Series (2011), Diabetes Division, UTHSCSA: "Principles of Genetics"; 2 hour talk
2011-2012	Renal Grand Rounds, Division of Nephrology, UTHSCSA, "Principles of Genetics and Relevance to Diabetic Nephropathy"

(vi) Ph.D. Dissertation Committees:

2009	External examiner, Candidate: Kiymet Bozaoglu, Metabolic Research Unit, Deakin University, Geelong, Australia. Thesis Title: "Chemerin, a novel adipokine in the

regulation of angiogenesis."

2006-2008 Member of Ph.D. thesis committee, University of Andhra Pradesh, India
Candidate: Viswanadhula Padma. Human Population Genetics. Thesis Title:
"A Genetic Study of Two Endogamous Caste Populations of Andhra Pradesh"

2008-2009 Member of Ph.D. thesis committee, University of Andhra Pradesh, India
Candidate: Sri. M. Narsinga Rao; Human Population Genetics. Thesis Title:
"Smoking, Consanguinity and Bio-Anthropological Variation: a Primitive Tribal Study from Andhra Pradesh"

GRANT FUNDING (SINCE 2000)

VA, Merit Review Co-I; (PI: RA DeFronzo) 10/1999-9/2004
"Molecular Epidemiology of T2D in Mexican Americans"
Total Costs $1,405,000

Howard Hughes Medical Institute **PI: CP Jenkinson** 6/2000-11/2001
"Molecular Characterization of ENPP1 in T2D in Mexican Americans"
Annual Direct Costs: $45,000

UTHSCSA Competitive Research Enhancement Fund **PI: CP Jenkinson** 6/2000-7/2001
"Mutation Scanning of PC1: A Positional Candidate Gene for T2D in Mexican Americans"
Annual Direct Costs: $50,000

TX Permanent University Fund **PI: CP Jenkinson** 1/2001-12/2001
"Molecular Genetics Core Facility"
Total Direct Costs: $522,267

VA: VISN17 **PI: CP Jenkinson** 4/2001-3/2003
Molecular Characterization of PC-1 in T2D in Mexican Americans"
Total Direct Costs $100,000

NIDDK 2R01DK047936-07A Consultant (PI: Mandarino) 6/2001-7/2006
"Molecular Regulation of Muscle Metabolism in Man"
Total Direct Costs $969,500

NICHD 5R01HD041111-06 CoI (PI: Duggirala) 9/2001-6/2008
"Genetics of Birth Weight in Mexican Americans"
Total Direct Costs $2,346,000

VA Merit Review **PI: CP Jenkinson** 4/2002-3/2005
"Molecular Characterization of PC-1 in T2D in Mexican Americans"

Total Direct Costs $300,000

Presidents Research Enhancement Fund **PI: CP Jenkinson** 6/2002-7/2003
"Gene discovery in T2D and related phenotypes in Mexican Americans"
Total Direct Costs $75,000

Health Resources & Services Administration 1C76HF00470 Co-I (PI: DeFronzo) 9/2002-9/2005
"Health Care Facilities and Other Construction (Diabetes)"
Total Costs $4,000,000

NIDDK/Center for Inherited Disease Research **PI: CP Jenkinson** 6/2003-2/2004
"A 10 cM genome scan in VAGES" Total Costs $500,000

South Texas Health Research Center (STHRC) **PI: CP Jenkinson** 1/2004-12/2005
"Research Equipment Grant Award" Total Costs $5,000

Applied Biosystems **PI: CP Jenkinson** 1/2004-12/2004
"LD map at 6q23 in Mexican Americans"
Total Costs $245,000

NIDDK RO1 DK067690 " **PI: CP Jenkinson** 3/2004-3/2009
"Diabesity Gene Discovery at Chromosome 6q23"
(This proposal received a score of 3% on first submission)
Total Direct Costs $2,300,000

San Antonio Area Foundation Consultant 6/2004-7/2005
"Discovery of Diabetes Genes using SNP Genotyping Total Costs $30,876

San Antonio Area Foundation **PI: CP Jenkinson** 6/2004-7/2005
"Gene Expression in a Baboon Model of Type 2 Diabetes Mellitus"
Total Costs $31,600

Borderplex Council Co-Investigator (PI: Escamilla) 7/2008-6/2009
"Development of diabetes and metabolic syndrome in Hispanics using atypical antipsychotics"
Total Costs $49,806

NIDDK 1RO1DK066483 Co-I (PI: Mandarino) 6/2004-7/2009
"PGC-1 and Muscle Mitochondrial Dysfunction in Diabetes"
Total Direct Costs $1,900,000

NIDDK 3RO1DK53889 Co-I (PI: Duggirala) 6/2004-12/2004

"SA Family Gallbladder Disease Study"

Total Direct Costs $50,000

Kronkosky Foundation **PI: CP Jenkinson** 1/2008-1/2009
"Pre-Diabetes Gene Discovery in Mexican Americans"

Total Costs $75,000

NICHD R01HD037151 Co-I 8/1999-7/2012
"Disablement Process in RA"

Total costs $3,756,111

VA Merit Review Co-I (PI: DeFronzo) 10/2004-3/2009
"Molecular Epidemiology of T2D (2)"

Total Costs: $2,185,664

NICHD 5R01HD049051-04 Co-I (PI: Duggirala) 3/2005-2/2010
"The Metabolic Syndrome in Mexican American Children"

Total Costs $2,724,385

NIDCR 5R03DE016356-02 Co-Investigator 6/2006-6/2011
"Epidemiology of Recurrent Aphthous Stomatitis (RAS)"

Total Costs $1,800,000

NIAIDS 5R01HL080149-02 Consultant 8/2006-8/2011
"Genetics of infection and its relationship with CVD risk"

Total Costs $1,600,000

American Heart Association Consultant 1/2007-12/2010
"Role of Adiponectin Receptor 2 in the Insulin Resistance Syndrome"

Total Costs $260,000

NHLBI 1R01HL085742-01A Co-Investigator (PI: Del Rincon) 3/2008-2/2016
"Effect of Chronic Inflammation on Atherosclerosis Outcomes in RA"

Total Costs $3,690,835

RO1 NICHHD Co-Investigator (PI Escalante) 6/2011–7/2014
The Disablement Process in Rheumatoid Arthritis

Total Costs $1,661,000

VA Merit Review **PI: CP Jenkinson** 4/2008-10/2012

"Expression of Insulin Resistance Obesity Genes in Mexican Americans"
(this award received a score of 5%)

Annual Costs $900,000

NIDDK 1R01DK079195 **PI: CP Jenkinson** 4/2008-3/2014
"Identification of Prediabetes Genes by Expression Linkage Analysis"

Annual Costs $3,300,000

NIDDK AMP T2D-GENES Consortium Co-PI Investigator (PI Duggirala) 5/2015-4/2020
Discovery of functional variants in type 2 diabetes genes in Mexican Americans

Annual Direct Costs $481,328

Summary of Grant Funding: 2000-present

- Number of grants 31 (plus one pending)
- Total value of all grants $40,186,544
- Total value of funded grants $36,186,544
- Total value of grants as PI or Co-I $34,356,668
- Total value of grants as PI $8,448,867
- Total value of VA grants $4,890,664
- Proportion of funding from Federal sources 96%

Partnered with Dr. Megan Keniry from the Department of Biology, College of Sciences, on studies seeking to find molecular mechanisms underlying both obesity and aggressive cancer cell progression 2018; discussed possibility of submitting a CPRIT grant proposal.

Recent Grant Applications:

1. "Identification of Causal Genetic Variants Influencing Nonalcoholic Fatty Liver Disease Risk and Severity in Mexican Americans" Submitted, NIH Direct Costs: $2,426,742, Indirect Costs: $1,116,130, total costs $3,542,872; MPIs: Arya [Contact], Clarke, Alkhouri, Duggirala, **Jenkinson CP** Role: Co-Investigator (5%). R01 DK117351-01A1, NIH/NIDDK, 04/01/2019 – 04/31/2024; Status: Scored but not funded.

2. "Effects of Mixed Carotenoid Supplementation on Gut Microbiome and Dysmetabolic Obesity in Mexican American Youth and Young Adults: A Randomized Controlled Trial" R01, Submitted, (MPIs: Arya [contact], Mummidi, Goring, Canas), **Jenkinson CP** Role: Co-Investigator (5%), NIH/NIDDK/NIMHD/NICHD, 10/01/19 – 09/30/24, Direct costs: $2,489,666, Indirect Costs: 1,188,941, Total costs: $3,678,607

3. "Impact of Socio-Environmental Factors on Cardiometabolic Risk and Epigenetic Signatures in Mexican American Youth" Submitted. PI Duggirala, **Jenkinson CP** Role Co-Investigator (2.5%) 07/01/19 – 06/30/24, Direct Costs: $2,497,319, Total Costs: $3,643,648, R01 MD014629, NIH/NIMHD

4. Previous grant "Adipose ADH1B as a global modulator of obeso-insulin resistance in multiethnic population, submitted on March 5, 2018 was not read although reviewers comments received on July 6th, 2018 were favorable.

5. To be submitted, Nov 2019, "Cell Biology of ADH1B with respect to obesity". Jenkinson

PI; to be submitted as a *new* grant; It is intended to direct this grant to the KNOD study section rather than the Molecular and Cellular Study where the previous 2 grants were unfortunately sent.

6. **Submitted: Monday, October 7th, 2019**, "Impact of host genome and oral microbiome on periodontal disease disparity in Mexican Americans". Multiple PI mechanism. Jenkinson CP (Contact PI); Duggirala, R (MPI); Challa S (MPI); Kumar, P., (MPI); North, K. (MPI); Lopez-Alvarenga, J.C. (Co-I); Total Federal Funds Requested $3,791,004.00

JENKINSON GRANT-FUNDED RESEARCH LAB STAFF FROM 2000 TO 2013
(excluding clinical support staff and grant funded staff in collaborating labs)

1.	James Bynum	2000-2003	research assistant
2.	Mitchell McKnight	2000-2001	research assistant
3.	Starlight Colton,	2001–2004	research assistant
4.	Lenore Rodriguez RN,	2001-2008	Nurse
5.	Paul Streng,	2003-2009	research assistant
6.	Marcel Fourcaudot	2004-2015	senior research assistant
7.	Dawn Coletta, PhD	2002-2008	postdoctoral trainee
8.	Mortezha Kashvarzi, PhD	2005-2006	postdoctoral trainee
9.	Jeaneen Bailey, PhD	2005-2006	postdoctoral trainee
10.	Lih-Lan Hu	2003-2008	research assistant/study coordinator
11.	Melanie Aranda	2008-2010	research assistant
12.	Joshua Garcia, PhD	2005-2006	postdoctoral trainee
13.	Jennifer Perez	2005-2006	research assistant
14.	Padma Sathyanarayana, PhD	2006-2007	postdoctoral trainee
15.	Ramana Gutala, PhD	2005-2006	postdoctoral trainee
16.	Andrea Raz	2008-2010	research assistant
17.	Bess Buzzini	2002-2006	research assistant
18.	Vanitha Elango	2006-2008	research assistant
19.	Yanji Xu, Ph.D.	2005-2006	postdoctoral trainee
20.	Fabiola Mehta (nee Fernandez)	2008-2009	research assistant
21.	Amy Richardson	2011-2012	research assistant
22.	Richard Granato, PhD	2008-2010	study coordinator
23.	Nicole Dewath, PhD	2004-2005	postdoctoral trainee
24.	Astrid Dewath	2006-2008	research assistant
25.	Ella Mengyao Li, PhD	2008-2009	postdoctoral trainee

26. Luke Norton,PhD	2007-2010	postdoctoral trainee
27. Deidre Winnier, PhD	2007-2014	postdoctoral trainee/study coordinator
28. Laura Reyes	2010-2011	research assistant
29. Andrea Hansis-Diarte	2010-2011	study coordinator
30. Ruth Arya, PhD	2011-2012	postdoctoral trainee
31. Leticia de Los Santos	2011-2012	research assistant
32. Liza Morales, MS	2015-present	research assistant

PUBLICATIONS – PEER REVIEWED

Citations: 5,285 citations at 11/5/2019, h index 35 (Scopus 3.21.19)

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 Inherit 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.

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91. Alvaro Diaz-Badillo, Geetha Chittoor, Juan Carlos Lopez-Alvarenga, Rector Arya, Srinivas Mummidi, Shoba R. Puppala, Sharon P. Fowler, Roy G. Resendez, Joselin Hernandez-Ruiz, Feroz Akhtar, **Christopher P. Jenkinson**, Donna M. Lehman, Jane L. Lynch, Ralph A. DeFronzo, Daniel E. Hale, Braxton D. Mitchell, John Blangero, Ravindranath Duggirala. "Genetics of bone mass related phenotypes and their correlation with cardiometabolic traits in Mexican American children.

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93. Monserrat Pérez-Navarro, Rafael Valdez-Ortiz, Araceli Alegría-Díaz, Miguel Murguía-Romero, Rafael Jiménez-Flores, Rafael Villalobos-Molina, **Chistopher Jenkinson**, Srinivas Mummidi, Ravindranath Duggirala, Juan C. López-Alvarenga. Prevalence of cardiometabolic risk factors and their association with glomerular filtration rate and proteinuria in healthy young Mexicans: A cross-sectional study. Submitted to the International Journal of Epidemiology.

Publications Other, OnLine

1. **Jenkinson CP**. et al., Obesity 2008 16(7):1708-1713. Included in the August 2010 update of the NIH Genetic Association Database (GAD) an NIH based public repository of summary information from published candidate gene and GWAS studies of common diseases. http://geneticassociationdb.nih.gov/

2. **Jenkinson CP, Genome Expression Omnibus (GEO).** A public functional genomics data repository supporting MIAME-compliant data submissions. http://www.ncbi.nlm.nih.gov/geo/

    2.1. **Accession ID: GSE64567** Transcriptomic identification of genes for obesity and insulin resistance in human adipose tissue in a Mexican American population sample drawn from the Veterans Administration Genetic Epidemiology Study (VAGES)

    2.2. **Accession ID: GDS3181** Acute physiologic hyperinsulinemia effect on the skeletal muscle: time course

    2.3. **Accession ID: GSE9105** Effect of Acute Physiologic Hyperinsulinemia on Gene Expression in Human Skeletal Muscle in vivo

    2.4. **Accession ID: GSE28782** Chromatin occupancy of TCF7L2 in hepatocytes

    2.5. **Accession ID: GDS2172** Pressure overload-induced cardiac hypertrophy effect on interleukin-18 null hearts

    2.6. **Accession ID: GSE5129** IL-18 and Pressure Overload-induced Cardiac Hypertrophy

3. **T2D-GENES web portal** and knowledgebase for results from human genetic association studies of type 2 diabetes and related traits, built as part of the T2D-GENES consortium with funding and support from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). Provided skeletal muscle biopsy samples for ATACseq analysis in the laboratory of Dr. Steven Parker. http://www.type2diabetesgenetics.org/

4. Curran JE, Kumar S, Cromack DT, Hu SL, Coletta DK, Dyer TD, Arya R, Carless M, 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). World Biomedical Frontiers, Diabetes and Obesity Section ISSN; published online, 2015, ISSN: 2328-0166. http://biomedfrontiers.org/diabetes-obesity-2015-9-11/

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)

2. **Book Chapter,** Co-Author, "The Role of Pharmacogenomics in Diabetes" in "Pharmacogenomics: Challenges and Opportunities in Therapeutic Implementation" (Second Edition), Lead Editor Dr. Francis Lam (Professor of Pharmacology, Distinguished Teaching Professor, Department of Pharmacology, UTHSCSA). 2018.

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

10/2017 **"**Alcohol Dehydrogenase in Obesity/Insulin Resistance (OB/IR) and it's Relevance to Human Migration." What can Genomic and Cultural Diversity tell us about Migration?
2nd International Human Migration Conference. Mexico City, Mexico.

9/2018 "The Role of Alcohol Dehydrogenase 1B (ADH1B) in Type 2 Diabetes and Obesity."
Translational Research Seminar Series, Fall 2019. The UTRGV Department of Health and Biomedical Sciences, UTRGV South Texas Diabetes and Obesity Institute, and UT Health Science Center School of Public Health.

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
2013-present	Member, Editorial Board, *BMC Medical Genetics*

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)

Media interview for “The Daily Texan” on camera interview. (2018). University of Texas at Austin.

Other

2018	Interviewed and evaluated multiple visiting national faculty on behalf of the STDOI and the UTRGV (including Courtney Griffin PhD, Mon 4/10/2017;

	and Dr Shan Yan, March 29-30; Dr. Subash Chauhan, July 25, Craig Meyers, August 13, Dr XingXing Zang, August 30, for UTRGV positions).
2014-present	Tissue biobank: “Jenkinson repository for Discovery of Diabetes Genes” containing muscle, fat, blood and extracted RNA samples, located in my previous lab at UTHSCSA. Provides access to over 600 samples. We are currently using these samples for “ATACseq” studies in the “Accelerating Medicines Partnership - Type 2 Diabetes Genetic Exploration by Next-generation sequencing in multi-Ethnic Samples” (AMP T2D-GENES) Consortium
2017-present	Complex Disease Journal Club Journal: attended and introduced speakers (local, and national).
2018	Wrote support Letters for: Dr. Megan Keniry, Asst. Professor, Dept. Biology, College of Science, for NIH SC3 grant; Mr. Adithya Mummidi for Harvard and Cornell Universities;
2018	Founded and Chaired the weekly brainstorming meetings “Throwing Spaghetti at the Wall” designed to network with colleagues and brainstorm innovative ideas for potential future funding.
2017-present	Manuscript/grant Review: Review of multiple local STDOI manuscripts and grants
2018-present	Ongoing review of budget planning and purchase of reagents and equipment for equipping the molecular genetic laboratories of and oversight of genotyping rare variants in Jenkinson laboratory by Ms. Morales. Drs. Jenkinson and Duggirala in the Edinburg Regional Academic Health Center.
2018	Assisted Dr. Mummidi and Ms. Liza Morales with design of lab space and inventory of equipment for new labs in new Biomedical research building at the UTRGV.
2019	SOM Research Symposium 9/14/20 Judge of poster presentations