

## CURRICULUM VITAE – October 2024

NAME IN FULL: Craig Lee Hanis

PRESENT TITLE: Professor

ADDRESS: (Office) Human Genetics Center  
School of Public Health, RAS E423  
University of Texas Health Science Center at Houston  
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Houston, Texas 77225  
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DATE AND PLACE OF BIRTH: April 11, 1952  
Seattle, Washington

MARITAL STATUS: Married: Five Children and 22 Grandchildren

CITIZENSHIP: U.S.A.

UNDERGRADUATE EDUCATION: 1970 - 1974 Brigham Young University, Provo, Utah  
B.S. Zoology, Chemistry - minor

GRADUATE EDUCATION: 1974 - 1977 Brigham Young University, Provo, Utah  
M.S. Zoology  
1978 - 1981 University of Michigan  
Ann Arbor, Michigan  
M.A. Statistics  
1978 - 1981 University of Michigan  
Ann Arbor, Michigan  
Ph.D. Human Genetics  
Major Professor - Charles F. Sing

### ACADEMIC APPOINTMENTS

1994 - Now Professor, Human Genetics Center, School of Public Health, University of Texas Health Science Center at Houston, Houston, Texas.  
Professor, Epidemiology, School of Public Health, University of Texas Health Science Center, Houston, Texas.

1991 - 1994 Professor, Center for Demographic and Population Genetics, University of Texas Health Science Center, Houston. Texas.

1991-1994 Professor, Epidemiology, School of Public Health, University of Texas Health Science Center, Houston, Texas.

1990 - 1991 Acting Director, Center for Demographic and Population Genetics and Medical Genetics Center, University of Texas Health Science Center at Houston, Houston, Texas

1987 - 1991 Associate Professor (with tenure), Center for Demographic and Population Genetics, University of Texas Health Science Center, Houston. Texas.  
Associate Professor, Human Ecology, School of Public Health, University of Texas Health Science Center, Houston, Texas.

1986 - 1987	Assistant Professor, Center for Demographic and Population Genetics, University of Texas Health Science Center, Houston, Texas. Assistant Professor of Human Ecology, School of Public Health, University of Texas Health Science Center, Houston, Texas.
1983 - 1986	Research Assistant Professor, Center for Demographic and Population Genetics, University of Texas Health Science Center, Houston, Texas.
1984 - 1986	Research Assistant Professor of Human Ecology, School of Public Health, University of Texas Health Science Center, Houston, Texas.
1981 - 1983	Research Instructor, Center for Demographic and Population Genetics, University of Texas Health Science Center, Houston, Texas.

### **PRIOR MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

American Society of Human Genetics  
American Diabetes Association  
International Diabetes Federation  
American Association for the Advancement of Science  
Board of Directors, Houston Chapter American Diabetes Association (1987-1990)  
United States - Mexico Border Health Association

### **HONORS AND AWARDS**

University of Texas Health Science Center at Houston New Investigator Development Program Mentor, August 2016  
University of Texas Health Science Center at Houston, Nominee for University of Texas System Regent's Outstanding Teaching Award, 2015 and 2016  
University of Texas Health Science Center at Houston President's 2011 Scholar Award for Research, May 17, 2012  
Texas Tech University Health Sciences Center, 4<sup>th</sup> Annual Research Colloquium Keynote Speaker, May 6, 2010  
Brigham Young University College of Life Sciences "College Honored Alumni" Award, October 9, 2008, Provo, Utah  
"Dean's Teaching Excellence Award, 2008", University of Texas Health Science Center at Houston, School of Public Health, Houston, Texas  
Kleberg Medical Scholars Keynote Address – University of Texas Health Science Center at San Antonio Regional Academic Health Center Medical Ed Division – Brownsville, Texas, February 2, 2005.  
"La Búsqueda de los Genes de la Diabetes Tipo 2 Y Sus Complicaciones", Keynote Address, 14 Curso Multidisciplinario de Diabetes Y 2<sup>nd</sup> Congress Nacional de Síndrome Metabólico, Mexico City, October 16, 2004.  
Honoree "for contributions to health disparities research" – The Center for Research on Minority Health, The University of Texas MD Anderson Cancer Center, April 25, 2002  
Chair of the Faculty – School of Public Health, 2002-2003  
Commencement Speaker - University of Texas Pan American, December 16, 2000  
Distinguished Speaker - Center for Genetics, University of Cincinnati, November 1999  
John P. McGovern Outstanding Teacher Award - 1991-1992 Academic year, Graduate School of Biomedical Sciences  
Research Career Development Award - 1987-1992 (see Past Grant Support)  
Recognized "Teaching Excellence" by Dean of the Graduate School for the Academic years 1983 - 1984, 1986 - 1987, 1987 - 1988, 1988 - 1989, 1991, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000  
New Investigator Award - 1983-1986 (see Past Grant Support)

## SERVICE ON UNIVERSITY, SCHOOL OF PUBLIC HEALTH AND GRADUATE SCHOOL COMMITTEES

UTHealth Data Advisory Committee	2020 – Present
Co-Director, Training Program for Environmental Health Sciences	2019 – Present
SPH – IT Advisory Committee and Chair	2017 – Present
EHGES Preliminary Exam Committee	2017 – 2019
Member – Interfaculty Council	2016 – Present
Member – School of Public Health Biostatistics Chair Search Committee	2015 – 2017
Chair – School of Public Health Faculty Search Committee (5 Positions)	2012 – 2016
Member – School of Public Health Brownsville Dean Search Committee	2012 – 2014
UTHEALTH Presidential Scholar Nominating Committee	2012 – Present
EHGES Division Pre-Award Team Leader	2011 – Present
Burroughs Welcome Training Grant Steering Committee:	2009 – 2017
UTHSC – Standing Faculty Tribunal Panel:	2009 – 2014
SPH Research Council – (Vice Chair – 2004–2005):	2004 – 2010
Epidemiology Division Leadership Council:	2004 – 2014
UT System Chancellor’s Committee on Prevention:	2005 – 2007
GSBS Curriculum Committee	2004 – 2007
UTHSC Interfaculty Council:	2003 – 2005
Office of Sponsored Projects COEUS Implementation Committee:	2004 – 2005
SPH Faculty Chair (1 year as chair elect, 1 as chair and 1 as post–chair):	2002 – 2005
UTHSC IMM Architectural Advisory Committee:	2002 – 2004
UTHSC IMM Ad Hoc Project Building Committee:	2002 – 2004
SPH Faculty Policy Committee (3 year term, chair 2001–2002):	2001– 2004
SPH Executive Committee:	2001 – 2006
SPH Post Tenure Review Committee:	2000
UTHSC Research Council:	2000 – 2002
UTHSC Institutional Biosafety Committee:	2000 – 2004
Intellectual Property Committee:	1999 – 2010
Office of Research Services Mock NIH Grant Review Committee:	1999
Office of Sponsored Projects Grant Simplification Team:	1999
Search Committee for GSBS Dean:	1998 – 1999
SACS Self Study Project Evaluation Committee:	1998 – 2000
Cullen Chair in Molecular Medicine Evaluation Committee:	1996
UTSPH Community Health Advisory Board:	1995 – 1998
Co–Convener – SPH Biological Sciences Discipline:	1994 – 1997
Project Advisory Committee for the Institute of Molecular Medicine:	1993 – 2005
Postdoctoral Fellow Application Review Committee:	1992 – 1996
Task Force on Consolidation of Basic Science:	1992 – 1994
GSBS Membership Committee:	1991 – 1994
UT MD Anderson Statistical User's Group Steering Committee:	1990 – 1991
Valley/Border Health Services Delivery Project:	1989 – present
UTHSC Scientific Council:	1989 – 1990
UTHSC Scientific Review Committee:	1989 – 1994
SACS Clinical Education Subcommittee:	1989
UTHSC Interfaculty Council (Vice chair, 1988 – 1989):	1987 – 1989
GSBS BRSB Committee:	1986 – 1992

## FACULTY MENTORING

Member, Mentoring Committee for Jooyeon Hwang:	2023 – Present
Member, Mentoring Committee for Arabela Garza:	2021 – 2024
Mentor, David A. Aguilar, M.D.	2018 - 2022
Member, Mentoring Committee for Wei-Chung Su:	2017 – 2023
Mentor, William B. Perkison, M.D,	2016 - 2024
Mentor, Goo Jun	2015 - 2020
Mentor, Jennifer E. (Piper) Below	2013 - 2015
Member, Mentoring Committee for Eric Brown	2009 – 2019
Member, Mentoring Committee for Shaper Mizra:	2008 – 2012
Member, Mentoring Committee for Taylor Maxwell	2007 – 2011
Member, Mentoring Committee for Jennifer Nettleton	2007 – 2012
Member, Mentoring Committee for Shreela Sharma	2007 – 2010
Member, Mentoring Committee for Flo Dallo	2007 – 2010
Member, Mentoring Committee for Bahman Roudsari	2007 – 2010
Member, Mentoring Committee for Jan Bressler	2006 – 2016
Member; Mentoring Committee for Blanca Restrepo	2005 – 2010
Member; Mentoring Committee for Jackie Slomka	2005 – 2009
Member; Mentoring Committee for Alanna Morrison	2004 – 2007
Member; Mentoring Committee for Momio Xiong	2003 – 2007
Chair; Mentoring Committee for D. Michael Hallman	2002 – 2008
Member; Mentoring Committee for Corinne Aragaki	2001 – 2004
Member; Mentoring Committee for Jan Risser	2001 – 2003
Member, Mentoring Committee for Lyn Steffen-Beaty	1998 – 2000
Chair, Mentoring Committee for Xifeng Wu	1997 – 2000
Chair, Mentoring Committee for Yun-Xin Fu	1994 – 1997

## TEACHING

Big Data Foundations for Genes, Environments and Interactions – SPH (PH2817) – A new course first offered Spring 2020. This course introduces the principles and methods for making inferences regarding genes, environments and their interactions in the context of Big Data resources. It is also a required course for all Ph.D. and Postdoctoral students for a Training Program in Environmental Health Sciences that is a joint UTHealth and Baylor College of Medicine Program.

Genetics and Human Disease - GSBS and SPH - offered each Fall Semester, 1987 -present.

Principles and methods of human genetic analysis with special reference to the contribution of genes to our burden of disease. Course organizer and responsibility for approximately 50 % of lectures. Since 2017 have been responsible for 90% of lectures and all grading

Genetic Epidemiology of Chronic Disease - GSBS (GS11 0092) and SPH (PH3340) - offered each Spring Semester, 1993 - present. A review of the evidence that genes contribute to common chronic conditions including diabetes, cardiovascular disease, cancer, etc. Course organizer and responsibility of approximately 50% of lectures.

Introduction to Genetic Counselling – GSBS 11.1132 – Each Fall since 2010. Annual two hour lecture on Genetic Epidemiology and Population Genetics

Foundations of Biomedical Sciences – GSBS – 2016-2020, all incoming GSBS students are required to take a 7 hour core principles course. I coordinated the genetics week, lecture and assist in workshops. 2016-2018

Human Genetics 1 - GSBS 11.01.3 - offered each Fall Quarter, 1981 - 1986. The first of a series aimed at developing genetic principles in the context of humans. The purpose is to develop an understanding

of the special methods of inference that are required in order to assess the transmission of traits within families. Approximately 50% of the course lectures, exam preparation and grading.

Disease: Natural History, Prevention and Control - PH4610, Lecture on Diabetes and Hypertension - 1.5 hours, Fall 2001

Introduction to Epidemiology - PH2610 - 2 hour lecture on Genetic Epidemiology - Each semester Winter 2001 – 2014, Fall 2024

Human Population Genetics - Baylor College of Medicine, Each Fall 1987 - 1990.

Principles of population and quantitative genetics as applied to humans. Responsible for 25% of lectures.

Introduction to Disease - SPH Biological Sciences Discipline Core Course, 1 lecture “Inherited Disease” presented locally and also via Distance Learning

Northbrook Middle School Distance Learning Wellness Program - Lecture on Heredity and Disease Risk - Fall 1999

Social Determinants of Health – “Genetics of Type 2 Diabetes and Population Genetics”, 1.5 hr lecture, Carl Slater Coordinator, April 3, 2000

## OTHER SCHOLARLY ACTIVITIES AND REVIEW BODIES

### Non-ad hoc Review Body Memberships and Other Scholarly Activities

American Diabetes Association Scientific Review Committee	2018 - 2022
American Diabetes Association Scientific Review Committee	2015 - 2017
NIH Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section Chair	2011 – 2013
NIH Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section	2010 – 2013
NIH Multiethnic Replication for Diabetes Steering Committee	2009 – 2012
Measures for Phenotypes and Exposures (PhenX) NHGRI Diabetes Working Group Chair	2009 – 2011
Honorary Editorial Board Member, <i>Clinical Optometry</i>	2009 – 2012
Scientific Advisory Board, Chinese American Eye Study, USC	2009 – 2015
Editorial Board, <i>Cardiology</i>	2007 – 2010
UT System Task Force on Primary Prevention	2006 – 2009
Borderplex Council Taskforce on Diabetes and Obesity	2005 – 2009
Scientific Advisory Board – Boston Obesity Nutrition Research Center, Boston, Massachusetts	2004 – 2008
NIH: NIDDK DCCT/EDIC Scientific Advisory Committee	2003 – 2008
Scientific Advisory Board – Sorenson Molecular Genealogy Foundation, Salt Lake City, Utah	2003 – 2005
Texas Pediatric Diabetes Research Advisory Committee	2001 – 2003
Editorial Board, <i>Diabetes</i> , 3 year term	2000 – 2002
NIH Epidemiology and Disease Control 1 Study Section	1998 – 2002
American Diabetes Association Scientific Review Committee	1996 – 1998
American Diabetes Association Scientific Sessions Committee	1996 – 1997
Southwest Foundation for Biomedical Research Grant Review Committee	1994 – 1997

### Ad Hoc Review Bodies and Other Scholarly Activities

Sometime reviewer for: American Journal of Human Genetics, American Journal of Epidemiology, American Review of Respiratory Disease, Arteriosclerosis and Thrombosis, Circulation, Clinical Endocrinology, Diabetes, Diabetes Care, Digestive Diseases and Sciences, Epidemiologic Reviews, Ethnicity and Disease, Genetic Epidemiology, Genomics, Human Biology, Human Genetics,

International Journal of Epidemiology, Journal of the American Medical Association, Journal of the National Cancer Institute, Mathematics Applied in Medicine and Biology

NIH NHLBI – TOPMed X01 Review Panel	03/06/2023
NIH NIDDK - RC2, High Impact, Interdisciplinary Science, Review Panel	12/08/2022
NIH DRTC – Diabetes Research and Training Center Special Emphasis Panel	06/26-27/2022
NIH NIDDK – Tissue Repository Special Emphasis Panel – ZDK1 GRB-9 M1 1	04/05/2022
Joslin Diabetes Research Center Pilot and Feasibility Grant Reviewer	03/30/2022
NIH DRTC – Diabetes Research and Training Center Special Emphasis Panel	10/04-05/2021
UTHealth-MD Anderson Population Health Initiative Collab Projects Reviewer	07/06/2021
NIH ZEYVSN01 – Special Emphasis Panel, NEI	10/20/2020
ADA COVID Grant Review Panel	06/05/2020
NIH DRTC – Diabetes Research and Training Center Special Emphasis Panel	10/28-29/2019
NIH ZRG1 DKUS-H (54), Special Emphasis Panel	07/19/2019
University of Chicago Diabetes Research and Training Center Pilot Study Reviewer	03/15/2019
NIH Genetics and Human Disease Study Section – ad hoc member	02/25-26/2019
NIH ZRG1 DKUS-H (54), Special Emphasis Panel	11/16/2018
NIH Genetics and Human Disease Study Section – ad hoc member	06/28-29/2018
NIH ZDK1 GRB-S 07 B, Special Emphasis Panel – NIDDK SBIR	06/21/2018
NIH ZEY1 VSN (01) NEI Special Emphasis Panel	03/22/2017
NIH ZRG1 PSE-P (02) M Special Emphasis Panel (Chair)	11/07/2017
NIH ZRG1 DKUS-H (54) R Special Emphasis Panel	06/08/2017
NIH NIDDK DRC Review Panel	05/24-25/2017
NIH/DOD – Uniformed Services University Special Emphasis Panel Reviewer	04/05/2017
NIH NIDDK IBD Special Emphasis Panel	03/07/2017
NIH NHGRI Special Emphasis Panel	11/30/2016
NOVO-Nordisk Foundation – Innovative Grant Program Reviewer	09/27/2016
NIH NIDDK DRC Review Panel	10/20-21/2016
NIH NIDDK ZRG1 DKUS-C (54) R, Special Emphasis Panel	06/29/2016
NIH NIDDK ZDK1 GRB-S (03) R, Special Emphasis Panel - Chair	06/23/2016
NIH/DOD – Uniformed Services University Career Devt Award SEP	03/31/2016
NIH Special Emphasis Panel – Appendicitis	12/15/2015
NIH Ancillary Studies Special Emphasis Panel	12/11/2015
NIH/DOD – Uniformed Services University Special Emphasis Panel Reviewer	12/03-04/2015
NIH Special Emphasis Panel	11/16/2015
NIH Ancillary Studies Special Emphasis Panel	11/06/2015
NIH Special Emphasis Panel	09/08/2015
NIH NIDDK ZEY1 VSN (05), Special Emphasis Panel - Chair	07/22/2015
NIH NIDDK ZDK1 GRB-9(01) 1, Special Emphasis Panel	07/21/2015
NIH NIDDK DDK-D, Special Emphasis Panel	06/17/2015
NIH NHGRI Genomic Medicine Meeting #8, Panel 6 Member	06/08-09/2015
NIH NIDDK ZDK1 GRB-3 M3 1, Special Emphasis Panel - Chair	02/-3/2015
NIH NIDDK ZDK1 GRB-R(06) Special Emphasis Panel	07/31/2014
NIH NIDDK ZDK1 GRB-1(06) Special Emphasis Panel - Chair	07/23/2014
NIH NEI ZEY1 VSN(06) Special Emphasis Panel	07/21/2014
NIH CSR ZRG1 PSEQ80 Special Emphasis Panel (R15s) – Co-Chair	07/10/2014
NIH NIDDK ZDK1 GRB-D(06) Special Emphasis Panel	07/02/2014
NIH NEI ZEY1 VSN(06) Special Emphasis Panel	04/10/2014
NIH NIDDK ZDK1 GRB-D(M1) Special Emphasis Panel	04/09/2014
University of Chicago Diabetes Research and Training Center Grant Reviewer	01/08/2014

NIH NIDDK Special Emphasis Panel, “Small Grants for New Investigators to Promote Diversity”	12/06/2013
NIH NIDDK Special Emphasis Panel, Teleconference	10/30/2013
NIH KNOD Member Conflict Special Emphasis Panel, Teleconference Chair	10/29/2013
NIH NEI Special Emphasis Panel, Teleconference	07/10/2013
NIH NHGRI Special Emphasis Panel, Bethesda, Maryland	01/07/2013
Qatar National Science Foundation Reviewer	04/08/2013
NIH NHGRI Special Emphasis Panel, Teleconference	10/29/2012
UT MD Anderson Seed Grant Review Panel	10/21/2012
Juvenile Diabetes Research Foundation Project Reviewer	05/01/2012
NIH NCI R24 Special Emphasis Panel Teleconference	04/11/2012
Qatar National Science Foundation Reviewer	03/10/2012
NIH NCI Core Infrastructure Special Emphasis Panel Teleconference	02/21/2012
NIH ACCORD Trial Special Emphasis Panel Teleconference	12/14/2011
NIH NEI Review Panel, Ad Hoc Member, Bethesda, Maryland	12/05/2011
NIH NCI Special Emphasis Panel Teleconference	10/04/2011
American Diabetes Association Scientific Sessions – Abstract Reviewer	03/23/2011
University of Chicago Diabetes Research and Training Center Grant Reviewer	01/10/2011
NIH NEI Special Emphasis Panel, Bethesda, Maryland	04/11/2011
JDRF Ad hoc review panel – Write-in Review	09/09/2010
NIH NEI Special Emphasis Panel Teleconference	08/23/2010
AAAS Research Competitiveness Grant Reviewer (KACST)	07/12/2010
NIH K-Awards Special Emphasis Panel, Bethesda, Maryland	06/23-24/2010
NIH – Cardiovascular and Sleep Epidemiology (CASE) Study Section Member Conflict Special Emphasis Panel teleconference	06/17/2010
NIH The Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section ad hoc Member, Santa Monica, California	06/10-11/2010
NIH NEI Special Emphasis Panel, Bethesda, Maryland	04/12/2010
Qatar National Science Foundation Reviewer	03/22/2010
AAAS Research Competitiveness Grant Reviewer (KACST)	02/04/2010
University of Chicago Diabetes Research and Training Center Grant Reviewer	01/15/2010
National Medical Research Council of Singapore Grant Reviewer	01/06/2010
NIH NEI Special Emphasis Panel	11/30/2009
NIH HGRI Post-GWAS Study Section, Bethesda, Maryland	10/27–28/2009
NIH The Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section ad hoc Member, Bethesda, Maryland	10/05–06/2009
NIH RCMI Centers of Biomedical Research Excellence Review Panel:	09/23/2009
NIH Grand Opportunity RFA Reviewer, Alexandria, Virginia:	07/15/2009
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section, ad hoc member, Bethesda, Maryland	06/11–12/2009
NIH Challenge Grant Reviewer	07/2009
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section Member Conflict Review:	06/03/2009
NIH NIDDK K-Award Special Emphasis Panel	12/03/2008
NIH NEI Special Emphasis Panel, Bethesda, Maryland	11/17/2008
UT Border Plex Reviewer	11/09/2008
NIH CSR Special Emphasis Panel Chair	11/07/2008
NIH CSR Special Emphasis Panel	11/03/2008
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section Member Conflict Review Chair	10/23/2008

NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section, ad hoc member, Bethesda, Maryland	10/16–17/2008
NIH Center for Inherited Disease Research Special Emphasis Panel	09/05/2008
NIH CSR Special Emphasis Panel Chair	07/24/2008
NIH GEI Supplement Special Emphasis Panel	07/15/2008
NIH CASE and KNOD Member Conflict Review Panel	06/16/2008
CDC Genomics Panel – Chair of Review Committee	05/13/2008
Israel Science Foundation – Scientific Reviewer	04/16/2008
NIH NEI ZEY1 VSN(01) Special Emphasis Panel, Teleconference	04/10/2008
NIH NIDDK ZDK1 GRB-W Special Emphasis Panel, Teleconference	03/28/2008
American Diabetes Association Scientific Sessions – Retinopathy Planning Subcommittee	2008
NIH NEI VSN04 Study Section ad hoc member, Teleconference	07/13/2007
National Medical Research Council (Singapore), External Grant Reviewer	07/2007
Medical Research Council (UK Diabetes), External Grant Reviewer	06/2007
NIH NEI VSN04 Study Section ad hoc member, Bethesda, Maryland	06/29/2007
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section, ad hoc member, Bethesda, Maryland	06/07–08/2007
NIH CNRU Study Section ad hoc member, Bethesda, Maryland	02/27–03/01/2007
NIH NEI VSN Study Section ad hoc member, Teleconference	11/20/2006
NIH ZRG1 EMNR-G 03 M Study Section ad hoc member, Teleconference	11/09/2006
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section, ad hoc member, Bethesda, Maryland	10/05-06/2006
NIH Cardiovascular and Sleep Epidemiology (CASE) Study Section, ad hoc member, Bethesda, Maryland	06/08-09/2006
NIH Member Conflict SEP (ZRG-03), Teleconference	05/30/2006
NIH NEI VSN01 Study Section ad hoc member, Bethesda, Maryland	03/20/2006
NIH Clinical and Integrative Diabetes and Obesity (CIDO) and SRG1 EMNR K90 Study Section ad hoc member, Bethesda, Maryland	02/16/2006
NIH NCI Cancer Prevention P01 Cluster Review, Bethesda, Maryland	01/30-02/01/2016
NIH SEP (ZRG1 HOP-N (02)), Reviewer and Chair of Teleconference	11/30/2005
NIH SEP (for RFA DK-04-020 – “Clinical Nutrition Research Unit Core Centers”), Bethesda, Maryland	10/24-25/2005
NIH SEP (ZDK1 GRB-3 (01)), NIDDK Family Investigation of Nephropathy and Diabetes (FIND) Study, Reviewer and Chair	08/16/2005
Multiple Sclerosis Society, Special Application Reviewer	05/2005
Medical Research Council of South Africa – Grant Reviewer	05/2005
NIH SEP (ZRG1 HOP-Q (02)), Bethesda, Maryland	03/2005
NIH NIDDK Sep (ZDK1 GRB-6 (14)) Reviewer	02/2005
American Diabetes Association - Program Abstract Reviewer – Annual Meeting	2005
NIH GCRC Site Visitor (Yale)	12/2004
NIH-NINDS, Reverse Site Visitor, Bethesda, Maryland	12/2004
Wellcome Trust, Program Project Reviewer	08/2004
NIH EDC1 Study Section Ad Hoc Reviewer	06/2004
Pennsylvania State Department of Health – Project Reviewer	2004
Center for Border Health Research - Project Reviewer	2004
NIH EDC1 Study Section Ad Hoc Reviewer	02/2004
Hispanic Health Summit - Advisory Committee Member	2003
American Diabetes Association – Program Abstract Reviewer – Annual Meeting	2003



Chair, Molecular Genealogy Center Oversight Committee, Brigham Young University, Provo Utah, September	2002 - 2003
Ad Hoc Reviewer, NIH-NEI Special Emphasis Panel Member	07/2003
Ad Hoc Grant Reviewer, British Diabetes Association	06/2003
NIH EDC1 Study Section Ad Hoc Reviewer	10/2003
Ad Hoc Reviewer, Texas Mexico Border Health Association	09/2002
Ad Hoc Member, NIH EDC1, October 2002, February 2003,	06/2003
Dutch Diabetes Association, Ad Hoc Grant Reviewer	09/2002
Site Visitor, Molecular Genealogy Center, Brigham Young University, Provo, Utah	05/2002
NIH-NEI Special Emphasis Panel Member	04/2002
NIH-NHLBI Special Emphasis Panel Member	03/2002
NIH-NCI Special Emphasis Panel Member	02/2002
Genaissance Pharmaceuticals Consultant	2000-2005
NIH-NIDA Special Emphasis Panel member	07/2001
Juvenile Diabetes Research Foundation International Site Visit Chair - New York City	07/2001
NIH GCRC Site Visit Panel Member - Medical College of Wisconsin	05/2001
NIH Special Emphasis Panel Member	04/24/2001
NIH Special Emphasis Panel Member	04/20/2001
Juvenile Diabetes Research Foundation International Site Visitor and Reviewer - Melbourne, Australia	03/2001
NIH Special Emphasis Panel Member, NEI - K08 Awards, Bethesda, MD	03/27/2001
NIH Special Emphasis Panel Member	02/2001
NIH Special Emphasis Panel Member	12/2000
NIH GCRC Site Visit Panel Member - Northwestern University	09/2000
Center for Border Health Research Grant Reviewer	09/2000
NIH GCRC Site Visit Panel Member - Wake Forest University	03/2000
NIDDK DCCT-EDIC Advisory Committee	1999-2000
NIH Special Emphasis Panel Member	04/2000
Center for Border Health Research Grant Reviewer	09/1999
NIH Site Visit Panel Member - University of Alaska	08/1999
NIH Special Emphasis Panel Member	07/1999
Veterans Administration Project Reviewer	03/1999
NIH Special Emphasis Panel Member	02/1999
NIH Special Emphasis Panel Member	10/1998
Veterans Administration Project Reviewer	09/1998
University of Texas MD Anderson Project Reviewer	09/1998
NIH Special Emphasis Panel Member	05/1998
NIH GCRC Site Visit Panel Member - Rochester University	04/1998
NIH Special Emphasis Panel Member	02/1998
NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	06/1998
NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	10/1997
NIH Special Emphasis Panel Member	06/1997
NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	05/1997
NIH Ad Hoc Study Section Member - Safety and Occupational Health	08/1996
NIH NHLBI Ad Hoc Review Committee	03/1996
American Diabetes Association Scientific Review Board – Ad Hoc Member	02/1996
NIH Medicinal Biochemistry Study Section Ad Hoc Review Committee	08/1995
NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	04/1995
NIH NIDDK Ad Hoc Review Committee	04/1995
NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	12/1994

NIH Ad Hoc Study Section Member - Epidemiology and Disease Control 1	11/1994
NIH NIDDK Ad Hoc Review Committee	07/1994
NIH NIDDK Ad Hoc Review Committee	06/1994
NIH NHLBI Ad Hoc Reviewer - Small Grant (RO3) applications	04/1994
NIH NCHGR Ad Hoc Reviewer	02/1994
NIH NCI Ad Hoc Study Section Member - RFA CA-92-23	02/1993
NIH NIDDK Ad Hoc Review Committee	11/1992
NIH NHLBI Ad Hoc Study Section Member	10/1991
NIH NHLBI Ad Hoc Study Section Member	07/1991
NIH NHLBI Site Visitor	07/1991
United States-Israel Binational Science Foundation Peer Reviewer	01/1990
American Heart Association Florida Affiliate Multidisciplinary Project Grant Applications Peer Reviewer	10/1989

Consultant to the Lovelace Medical Foundation, Albuquerque, New Mexico regarding the genetics of mesangiopathic kidney disease among Zuni Indians.

Consultant to the University of New Mexico Tumor Registry regarding "Chronic Pulmonary Obstructive Disease Among Mexican Americans in Belen, New Mexico". (Study Principal Investigator is Jonathan M. Samet, M.D.).

Member: South North Center for Health Studies of the School of Public Health, University of Texas Health Science Center at Houston.

#### **SYMPOSIA ATTENDED BY INVITATION**

- “Four Decades of Biobanking in Starr County, Texas: Opportunities Generated by Being One Step Ahead”  
UTHealth Biobanking Workshop, Houston, TX, April 18, 2023
- “Starr County Health Studies: If Only Field Work Was as Easy as the Genetics”, Schull Institute Annual Conference and Scholars Program, Houston, TX, March 17, 2018.
- “Genetics of Type 2 Diabetes”, Medical World Americas 2015, April 28, 2015, Houston, Texas.
- “Sequencing in Type 2 Diabetes: T2D-GENES – Or Why Sequence”, American Diabetes Association Hot Updates from Genomics Consortia, June 14, 2014, San Francisco, California.
- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, SMAC Binational Health Council Obesity, Diabetes and TB Conference, Rio Grande City, Texas, 10/11/2013.
- “Genetics of Type 2 Diabetes Mellitus”, Diabetes for Primary Care in 2013, St. Luke’s Diabetes Symposium, Houston, Texas, 09/14/2013.
- “Type 2 Diabetes and Obesity Among Mexican Americans: Permissive Genes and Permissive Environments?”, Genetic and Molecular Mechanisms of Obesity-Related Sequelae, Houston, Texas 04/18/2013.
- “Genetic Trends in Diabetes: Type 2 Diabetes Among Mexican Americans”, Faces of Diabetes 7<sup>th</sup> Annual Diabetes Conference, El Paso, Texas, 10/15/2011.
- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, Texas Tech University Health Sciences Center Research Colloquium, El Paso, Texas, May 6, 2010.
- “New Developments in Genetic Studies of Hispanic Diabetes”, Genetics of Diabetes in American Ethnic Populations, American Diabetes Association, New Orleans, Louisiana, June 8, 2009.
- “A Genome Wide Association Study of Retinopathy Among Mexican Americans with Type 2 Diabetes”, Illuminating the Genetic Architecture of Common Eye Disease, The National Eye Institute, Catalina Island, California, February 4, 2009.
- “Genome-Wide Association Studies on Diabetic Retinopathy in Mexican Americans”, American Diabetes Association, San Francisco, California, June 9, 2008.

- “The Genetics of Diabetes: Public Health Implications”, 5<sup>th</sup> Annual Diabetes Summit, Austin, Texas, April 18, 2008.
- “Too Much Diabetes on the Border and More to Come”, Texas Mexico Border Health Conference, South Padre Island, Texas, October 18, 2007.
- “Genetics of Diabetes and Its Complications: Consortia Meeting”, NIDDK, Speaker and Discussion Leader, Bethesda, MD, July 20, 2005.
- “Genetic Susceptibility to Type 2 Diabetes and its Complications Among Mexican Americans” (Keynote Address), Experimental Biology 2005 Genomics Symposium, “Health Disparities in Cardiovascular Disease: Genetic and Therapeutic Applications”, San Diego, California, April 4, 2005.
- “Genetics of Diabetes”, The University of Texas System Molecular Medicine Symposium: Translating Discoveries into Health, Houston, Texas, February 21, 2005.
- “The Family Tree of Diabetes Has Deep Genetic Roots”, Symposium – Diabesity: The Family Disease of the 21<sup>st</sup> Century, McAllen, Texas, September 20, 2003
- “Bioinformatics: Core Concepts”, 2002 Informatics Short Course, School of Health Information Sciences, UTHSC, September 2002
- “Bioinformatics: Core Concepts”, 2002 Informatics Short Course, School of Health Information Sciences, UTHSC, March 22, 2002
- “Diabetes Among Mexican Americans”, Health Disparities Among Minority Populations Conference at Baylor College of Medicine, Houston, Texas, February 7, 2002
- “Genetic Epidemiology of Diabetes Complications”, symposium at the American Diabetes Association 2001 Scientific Sessions, June 22, 2001.
- “Mapping and Identification of Calpain 10 as a Diabetes Susceptibility Gene”, May 24, 2001, China-US International Symposium on the Mapping and Identification of Complex Polygenic Disease Genes, Chang-Sha, China
- “Prospects for Understanding the Genetics of Common Chronic Disease: Lessons from Type 2 Diabetes”, March 16, 2001, Brigham Young University Annual College of Biology and Agriculture Molecular Biology Symposium, Provo, Utah.
- “Genetics of Diabetic Retinopathy”, National Eye Institute Workshop, September 21-22, 2000, planning committee and talk entitled “Genetics of Retinopathy” on September 21, 2000.
- “Genome Scans for Type 2 Diabetes” symposium at the American Diabetes Association 1999 Scientific Sessions. June 21, 1999, talk titled “From Linkage to Disease Genes: The Pursuit of Type 2”
- “Taiwan Frontier of Medicine - Genome 2000 Symposium”, Taiwan Academy of Sciences, May 29 - June 2, 2000, talk titled “From Genome Scans to Disease Genes and Functional Mutations”, May 31, 2000
- “Texas A&M Annual Human Nutrition Conference”, February 4, 2000, talk titled “Genetics
- “Genome Screens: Changing the Landscape of Diabetes Epidemiology” council discussion session at the American Diabetes Association 1999 Scientific Sessions. June 20, 1999, talk titled “Genome Scans and Type 2 Diabetes”.
- “Anthropological Diversity and Complex Disease” symposium as part of the American Association of Physical Anthropology meetings, Columbus, Ohio, May 1, 1999. Talk titled “Genes and their interactions with environmental risk factors of type 2 diabetes: Experiences from studies of Mexican Americans”
- “Daño Microvascular, El caso de la Retinopatía Diabética”, 1er Curso Internacional – “Advances en Enfermedades Cardiovasculares”, June 26, 1998, Guadalajara, Jalisco, Mexico
- “Genética y Diabetes”, 1er Curso Internacional – “Advances en Enfermedades Cardiovasculares”, June 26, 1998, Guadalajara, Jalisco, Mexico
- “Diabetes Mellitus en México-Americanos”, 1er Curso Internacional – “Advances en Enfermedades Cardiovasculares”, June 26, 1998, Guadalajara, Jalisco, Mexico

- Keystone Symposia on Molecular and Cellular Biology - Discovery and Development of Novel Therapeutic Agents for the 21<sup>st</sup> Century, Tamarron, Colorado, Genetic Analysis of Diabetes, March 18, 1997.
- American Diabetes Association - Genetics of Diabetes - Denver, Colorado, March 1996 – “How Much Power is Enough in Genetic Studies”
- Texas State Society American Medical Technologists Annual Meeting - Invited Speaker “Diabetes Among Mexican Americans in Starr County, Texas” - September 15, 1995
- Cambridge Healthtech Institute, Advances in Genetic Screening and Diagnosis of Human Disease - Invited Speaker, “Genetics of IDDM and NIDDM Diabetes and Prospects for Early Diagnosis and Intervention”, March 9-10, 1995, San Francisco, California
- World Health Organization and Foundation IBSEN – “Genetic Approaches to Noncommunicable Diseases, Conference Speaker AGenetics of Non-insulin Dependent Diabetes Mellitus among Mexican Americans: Approaches and Perspectives”, December 1994, St. Petersburg, Russia.
- UT System Texas-Mexico Border Health Coordination Office, “Third UT System Texas-Mexico Border Health Symposium”, Conference Speaker “Diabetes, Complications and Mortality Among Mexican Americans in Starr County, Texas”, October 21, 1994, South Padre Island, Texas.
- UTHSC-H – “An Exploration of Human Subject Issues when Doing Genetic Research”, Conference Speaker, September 13, 1994, Houston, Texas.
- National Heart, Lung and Blood Institute "Workshop on the Epidemiology of Hypertension in Hispanic Americans, native Americans, Asian/Pacific Islander Americans". Conference speaker and discussion panelist. Gave presentation titled, "Hypertension in Hispanic Americans: Starr County Texas Study", June 20-21, 1994, Washington, DC.
- Texas Southern University College of Pharmacy and Health Sciences, "Providing Pharmaceutical Care to Minority Patients with Diabetes". Conference Faculty member and presentation titled "Pathophysiology of Diabetes Mellitus - Special Emphasis", June 4, 1994. Houston, Texas
- American Heart Association, "19th Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Diseases", Lake Tahoe, California, August 1-3, 1993. Conference Faculty member and presentation titled "The Genetics of Cardiovascular Disease".
- American Heart Association, "18th Ten-Day Seminar on the Epidemiology and Prevention of Cardiovascular Diseases", Lake Tahoe, California, July 29-30, 1992. Conference Faculty member and presentation titled "The Genetics of Cardiovascular Disease".
- U.T. System Valley/Border Health Symposium, "Starr County Diabetes Service Related Activities", Austin, Texas, October 22-23, 1990. Invited presenter.
- Texas Department of Health and Centers for Disease Control, "Diabetes among Mexican-Americans: Challenge to Action", San Antonio Texas, September 27-28, 1990. Presentation on Diabetes and Public Health.
- National Institute of Diabetes and Digestive and Kidney Disease "Workshop on Diabetes in Hispanics". Bethesda, Maryland, May 23-24, 1988. Three Presentation, "The Origins of U.S. Hispanics", "The Genetics Versus the Environment with Special Reference to the Starr County Study", and "Diabetes Mortality in Texas and Diabetes-Related Morbidity in Hispanics". Also led discussion on genetic and non-genetic factors accounting for the disproportionate prevalence of diabetes in Hispanics.
- University of Texas Health Science Center at San Antonio, Center for Health Policy Development, Inc., San Antonio, Texas, "Hispanic Health Status Symposium". Presentation - "Chronic Disease Epidemiology among Mexican-Americans in Starr County, Texas", Nov. 6, 1987.
- Texas Diabetes Council and American Diabetes Association, Austin, Texas, "Diabetes Among Mexican-Americans in Texas". Presentation - "Description of Diabetes in Texas", January 29, 1987.
- University of New Mexico Sunrise Springs Epidemiology Retreat, Sunrise Springs, New Mexico. Presentation - "Genetic Epidemiology 1 & 2" (2 one-hour presentations), November 1986.

- University of Texas System Symposium on Texas-Mexico Border Health, Austin, Texas. Presentation - "Mexican Americans in Starr County: Definition and Disease", March 1986.
- VII Congreso Latinoamericano de Genetica, I Congreso Colombiano Genetica, Bogota, Colombia. Symposium - "Gentica de Poblaciones Y Evolucion Humana". Presentation - Population and Individual Admixture: Relation to the Distribution of Diabetes and Gallbladder Disease", October 1985.
- Epicenter Conference, Woodlands, Texas. "Chronic Diseases among Mexican Americans". (Co-organizer). December 1984.
- Regional Meeting of the Biometric Society of America, Orlando, Florida. Symposium - "The Analysis of Family Data: Current Considerations". Presentation - "Nonrandom Sampling in Human Quantitative Genetics: Implications of Truncation", March 1984.
- Regional Meeting of the Biometric Society of America, San Antonio, Texas. Symposia - "Multivariate Methods in Human Genetics". Presentation - "Multivariate Models for Human Genetic Analysis: Aggregation, Coaggregation and Tracking of Traits", March 1982.

## **INVITED LECTURES AND SEMINARS**

- "Epidemiology, Genomes, and Public Health", Undergraduate Molecular Genetics and Genomics Club at Michigan State University, Delivered On-line, March 8, 2021.
- "Type 2 Diabetes Among Mexican Americans: From Our Genome to the Microbiome", September 20, 2021. University of Texas Health Science Center School of Dentistry, Houston, TX (Virtual Seminar).
- "Why Do the Epidemiology and Genetics Have to be So Hard?", UTHealth GSBS Quantitative Science Student Seminary, January 28, 2019.
- "Diabetes and prediabetes in Starr County, Texas: From Pathophysiology to Prevention", May 13, 2017, 12<sup>th</sup> Annual Chicago Diabetes Day, Chicago, Illinois.
- "The Genetics of Type 2 Diabetes: Why Sequence", June 24, 2016, MD Anderson Endocrine Research Seminar Series, Houston, Texas.
- "Metabolomic Profiling Among Mexican American Females With and Without Prediabetes: Amino Acids and Other Factors", April 7, 2016, NIH Metabolomics Webinar.
- "Religion and Spirituality in Genetic Counseling", October 1, 2015, Houston, Texas. Discussion Panelist for CME Program to Help Genetic Counselors deal with religious issues that arise.
- "Whole Exome Sequencing in Diabetes: From Monogenic Neonatal Diabetes to Polygenic Type 2 Diabetes". Pediatric Research Center Seminar, University of Texas Health Science Center at Houston School of Medicine, October 17, 2014, Houston, Texas.
- "Diabetes in Starr County is Just Part of the Story: Hypertension, Sleep Apnea and Related Conditions", SMAC Binational Health Council Conference, October 10, 2014, Rio Grande City, Texas.
- "Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans", SMAC Binational Health Council Obesity, Diabetes and TB Conference, October 11, 2013, Rio Grande City, Texas.
- "Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans", SMART Summer Program for Undergraduates, Baylor College of Medicine, 06/14/2013.
- "Type 2 Diabetes and Obesity Among Mexican Americans: Permissive Genes and Permissive Environments", University of Chicago School of Medicine Endocrinology Grand Rounds, Chicago, Illinois, 02/25/2013.
- "Whole Genome Sequencing: San Antonio Family Study", CHARGE Investigators Meeting, Houston, Texas 12/13/2012.
- "Genetics and Epidemiology of Type 2 Diabetes among Mexican-Americans", US-Mexico Border Binational Obesity Prevention Regional Forum, University of Texas Health Science Center, Laredo, Texas, November 29, 2012.

- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, SMART Summer Program Seminar, Baylor College of Medicine, Houston, Texas, June 14, 2012.
- “Insights into the Genetics of Type 2 Diabetes: From GWAS to Sequencing”, Division of Medical Genetics, Department of Pediatrics Research Seminar Series, University of Texas Health Science Center at Houston, Houston, Texas, October 25, 2011.
- “Genetics of Type 2 Diabetes Among Mexican Americans in Starr County, Texas: Where Have We Been and Where are We Going”, MD Anderson Endocrine Research Seminar, Houston, Texas, May 13, 2011.
- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, SMART Summer Program Seminar, Baylor College of Medicine, Houston, Texas, June 4, 2010.
- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, GSBS Summer Program for Undergraduates, The University of Texas Health Science Center at Houston, Houston, Texas, June 4, 2010.
- “Environmental Change, Permissive Genes and Type 2 Diabetes Among Mexican Americans”, Baylor College of Medicine Summer Research Program, Houston, Texas, June 26, 2009.
- “The Accessible Genome and Type 2 Diabetes among Mexican Americans in Starr County, Texas, The University of Texas Health Science Center at Houston Annual Research Day, November 21, 2008.
- “Genetics of Type 2 Diabetes and Retinopathy Among Mexican Americans”, Northwestern, University, November 20, 2008.
- “Genetics of Type 2 Diabetes and Its Complications: Rapid Changes in Epidemiology and Genome Access”, The University of Chicago Department of Human Genetics, Chicago, Illinois, November 19, 2008.
- “The Accessible Genome: Individuality, Commonality and the Genetics of Complex Disease”, Brigham Young University College of Biological Sciences Honored Alumni Lecture, Provo, Utah, October 9, 2008.
- “Type 2 Diabetes: An Epidemic Racing Ahead of Our Understanding”, HEADS UP Teacher Summer Science Institute, The University of Texas Health Science Center at Houston, Houston, Texas, July 15, 2008.
- “Type 2 Diabetes: An Epidemic Racing Ahead of Our Understanding”, Summer Research Program Seminar, Baylor College of Medicine and GSBS, Houston, Texas, June 20, 2008.
- “Genetics of Diabetic Retinopathy Among Mexican Americans”, Genetics of Diabetic Retinopathy Workshop, Park City, Utah, June 16, 2008.
- “Type 2 Diabetes Among Mexican Americans: From Epidemiology to Genome Wide Association”, University of Utah Department of Human Genetics, Salt Lake City, Utah, November 29, 2007.
- “Genome-wide Association Studies for Type 2 Diabetes – Starr County, Consortium and Other Efforts”, Prairie View A&M University, September 26, 2007.
- “Rapidly Changing Epidemiology of Diabetes and Untoward Glucose Levels Among Mexican Americans”, Stark Diabetes Center, Galveston, Texas, April 3, 2007.
- “Type 2 Diabetes and Obesity Among Mexican Americans: 25 Years of Experience in Starr County, Texas”, The University of Texas Health Science Center at Houston School of Public Health El Paso Regional Campus, December 1, 2006.
- “Diabetes 411: Type 2 Diabetes and Obesity Among Mexican Americans”, The University of Texas Health Science Center at Houston, Teacher’s Summer Science Institute, Harlingen, Texas, July 18, 2006.
- “Type 2 Diabetes and Obesity Among Mexican Americans: 25 Years of Experience in Starr County, Texas”, The University of Texas Health Science Center Graduate School of Biomedical Sciences Summer Research Program, July 10, 2006.
- “Type 2 Diabetes and Obesity Among Mexican Americans: 25 Years of Experience in Starr County, Texas”, Boston Obesity Nutrition Research Center (BONRC) Annual Meeting Plenary Session, June 19, 2006.

- “Two and a Half Decades of Changing Diabetes and Genetics Among Mexican Americans”, National Network of Latin American Medical Students, Baylor College of Medicine, November 14, 2005.
- “Genetics of Type 2 Diabetes and Its Complications”, University of Texas Health Science Center at Houston School of Medicine, Internal Medicine Grand Rounds, February 1, 2005
- “Diabetes in Starr County: An Update”, Starr County Teachers’ Retirement Association, Rio Grande City, Texas, January 20<sup>th</sup>, 2005
- “La Búsqueda de los Genes de la Diabetes Tipo 2 Y Sus Complicaciones”, Keynote Address, 14 Curso Multidisciplinario de Diabetes Y 2<sup>nd</sup> Congress Nacional de Síndrome Metabólico, Mexico City, October 16, 2004.
- “Diabetes tipo MODY: Aspectos Genéticos”, Congreso Internacional Sobre Diabetes, Cd. Reynosa, Tamaulipas, Mexico, October 13, 2004
- “Genetics of Type 2 Diabetes and Its Complications”, Baylor College of Medicine, Endocrinology Grand Rounds, September 30, 2004
- “Genetics and Epidemiology of Type 2 Diabetes and its Complications”, Texas Southern University, Houston, Texas, September 13, 2004
- “Principles and Practices of Getting Grants” – 2 lectures and ran a workshop session, University of South Florida, Tampa, Florida, May 22, 2004
- “Genes, Genome, Genomics and More”, Short Course for High School Teachers, Houston, Texas, July 7, 2003
- “Genetics Research Advancing the Management and Control of Diabetes”, From the Bench to Bedside: Applications of Genetics, Houston, Texas, December 5, 2002
- “Genetics of Diabetes: Why Don’t We Know More”, Short Course for High School Teachers, Houston, Texas, July 10, 2002
- “Genetics of Type 2 Diabetes and Its Complications”, Baylor College of Medicine, Endocrinology Grand Rounds, March 21, 2002
- “Genetics and Epidemiology of Diabetes and Its Complications”, University of Pittsburgh, Department of Epidemiology, October 23, 2001
- “Genetic Susceptibility to Type 2 Diabetes Among Mexican Americans”, Hispanic Serving Health Professionals Annual Conference, Bethesda, Maryland, November 10, 2000
- “Uncovering the Genes for Diabetes: Identification of a Susceptibility Gene among Mexican Americans in Starr County, Texas”, 6<sup>th</sup> Biennial UT System Border Health Symposium, South Padre Island, Texas, November 3<sup>rd</sup>, 2000.
- “Identification of *Calpain 10* as a Type 2 Diabetes Susceptibility Gene Among Mexican Americans in Starr County, Texas”, UTHSC Human Genetics Center Seminar, September 13, 2000
- “An Overview of the Genetics of Type 2 Diabetes”, Genaissance Pharmaceuticals, New Haven, Connecticut, December 15, 1999.
- “Genes, Diabetes and Implications”, Kingwood Medical Center and Diabetes Management Center, Kingwood, Texas, November 9, 1999
- “Genetics of Diabetes Among Mexican Americans: Identification of a Gene”, Distinguished Lecturer, University of Cincinnati Department of Environmental Health, Division of Epidemiology. Cincinnati, Ohio, November 3, 1999
- “Heredity and the Family Tree”, University of Texas Houston Health Science Center Distance Learning Wellness Program (Interactive TV), Houston, Texas, September 15, 1999.
- “Genetic Epidemiology of Type 2 Diabetes”, Harvard School of Public Health, Boston, Massachusetts, April 16, 1999.
- “Locating Genes for Type 2 Diabetes: An 18 Year Search”, Joslin Diabetes Center, Boston Massachusetts, April 15, 1999.
- “Locating Type II Diabetes Genes”, Baylor College of Medicine Endocrinology Group, March 10, 1998
- “Genome Searching for Type 2 Diabetes Genes”, Southwestern Oklahoma State University, November 1997

- “Genetics of Diabetes and Hypertension” - Hispanic Cardiovascular Health Conference - University of Texas Health Science Center, November 1, 1997
- “Diabetes Among Mexican Americans” - Texas/Mexico Border Health Continuing Education Symposium, April 11, 1997
- “Genetics of Type 2 Diabetes in Mexican Americans”, Prairie View A&M University, Biology Department, October 21, 1996
- “A Genome Search for Type II Diabetes Genes”, Baylor College of Medicine Endocrine Grand Rounds, September 12, 1996
- “Genetic and Epidemiology of Diabetes Among Mexican Americans in Starr County, Texas”, GSBS Distance Learning Program to UT Pan Am, Summer 1996
- “Finding Type II Diabetes Genes”, University of Texas Health Science Center at Houston Medical School Summer Research Program, July 11, 1996
- “Genetics of Common Disease: Locating Diabetes Genes”, University of Eastern New Mexico, Portales, New Mexico, November 13, 1995
- “Cuando Uno Tiene Diabetes”, Special Populations Research, Laredo, Texas, November 20, 1991, Invited presenter.
- “Diabetes in Starr County, Texas”, United States Mexican Border Health Association - Lower Rio Grande Valley Binational Health Council. McAllen, Texas, February 9, 1990.
- “Diabetes Among Mexican-Americans”, American Diabetes Association Texas Affiliate, Minority Awareness Initiative, Houston, Texas. April 13, 1988.
- “The Genetics of Chronic Disease Among Mexican-Americans”, University of Texas Health Science Center, Medical School, Department of Pediatrics. Houston, Texas. April 1, 1988.
- “The Genetics of Blood Pressure and Weight”, University of New Mexico Tumor Registry, Albuquerque, New Mexico. July 17, 1986.
- “Admixture at the Population and Individual Levels and the Relation to Diabetes and Gallbladder Disease”, University of Michigan Department of Human Genetics, Ann Arbor, Michigan. January 27, 1986.
- “Genetics and Epidemiology of Diabetes Among Mexican Americans”, Universidad Havariana Medical School, Bogota, Colombia. October 17, 1985.
- “Genetic Epidemiology of Chronic Disease Among Mexican Americans: Diabetes, Gallbladder Disease, and Hypertension”, University of New Mexico Tumor Registry, Albuquerque, New Mexico. February 6, 1985.

## GRANT SUPPORT

*PRESENT:* "Starr County Diabetes Related Service Activities". University of Texas System Valley/Border Health Services Delivery Project  
September 1, 1988 - August 31, 2025 \$924,000  
Principal Investigator 5%  
This project provides funding for diabetes and related screening for up to 100 individuals per week at our field office in Starr County, Texas.

“Diabetes Prevention Culturally Tailored for Mexican Americans”  
NIH/NIDDK DK109920 04/01/2017 – 07/31/2023 \$1,204,024  
Principal Investigator (under Multi PI plan)

This is a primary prevention trial in conjunction with Dr. Sharon Brown at the University of Texas at Austin. In this project we implement a culturally tailored diabetes prevention program among those with pre-diabetes. This represent the subcontract amount to the University of Texas at Austin where Dr. Sharon Brown is the contact Multi PI.



“Microbiome and Worsening Glycemia Among Mexican Americans in Starr County, Texas”

NIH/NIDDK DK116378 09/01/2017 - 08/31/2024 \$3,117,628

The purpose of this project is to determine the impact of microbiome relative abundance and diversity on the development of prediabetes and type 2 diabetes among Mexican Americans in Starr County, Texas. It will also document the impact of diabetes and seasonality on the microbiome abundance and diversity.

“Diabetes Progression with Metabolomic Profiling in Starr County Mexican Americans”

NIH/NIDDK DK118631 (Co-Investigator) 12/01/2018 – 11/30/2023 \$3,117,628

This project provides untargeted metabolomic profiles on all those in the microbiome projects listed above.

*PAST:* "Genetic Analysis of Multivariate Human Data". Biomedical Research Support Award.  
March 1, 1982 - June 30, 1983; \$3,075  
Principal Investigator

"Genetic Epidemiology of Mexican Americans: Pilot Studies". Biomedical Research Support Award.

September 1, 1983 - June 30, 1984 \$12,065

Co-Principal Investigator

"Statistical Problems in the Genetics of Diabetes". New Investigator Award from the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

R23-AM32895; July 1, 1983 - June 30, 1986. \$73,805

Principal Investigator

"Genetic Epidemiology of Diabetes in Mexican Americans". Renewal, National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

RO1-AM27582; September 1, 1984 - August 31, 1986. \$95,803

Co-investigator

Gallbladder Disease Aggregation among Mexican-Americans". National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases.

RO1-AM34666, December 1, 1984 - November 30, 1991. \$1,281,340

Co-principal Investigator

"Cardiovascular Risk Profile Among Mexican-Americans". National Heart, Lung and Blood Institute.

RO1-HL34823, April 1, 1986 - March 31, 1991. \$301,829

Principal Investigator

"Genetic and Epidemiologic Approaches to Chronic Disease". Research Career Development Award, National Institute of Diabetes & Digestive & Kidney Diseases.

KO4-DK01748, March 1, 1987 - February 28, 1992 \$240,600

Principal Investigator

"Risk factors of retinopathy among Mexican-American diabetics in Starr County, Texas".  
Kleberg Foundation  
July 1, 1990 - June 30, 1992, \$29,944  
Principal Investigator

"Dynamics of Retinopathy Among Mexican American Diabetics". National Eye Institute.  
RO1-EY06231, August 1, 1986 - July 31, 1991. \$532,970  
Principal Investigator

"Small Instrumentation Grant in Response to RFA PA-93-020". Natl Inst of Health.  
GM 50490. September 1, 1993 - August 31, 1994 \$37,398  
Principal Investigator

"Unidos en Salud: Weight Loss for Mexican Americans". National Heart Lung and Blood  
Institute. HL47052  
RO1, August 1, 1993 - July 31, 1998 \$992,632  
Principal Investigator (This represents a subcontract to Baylor)

"Education and Group Support for Diabetic Hispanics". National Institute of Diabetes,  
Digestive and Kidney Disease  
RO1 DK, July 1, 1994 - June 30, 1999 \$125,000  
Principal Investigator (subcontract to UT Austin)

"Studies on the Genetics of NIDDM: Starr County Family Acquisition Center". American  
Diabetes Association.  
June 1, 1993 - December 31, 1999 \$654,799  
Principal Investigator

"Studies on the Genetics of NIDDM: Central Data Center". American Diabetes  
Association.  
June 1, 1993 - December 31, 2000 \$534,654  
Co-Investigator

"Genetics of Diabetic Retinopathy". National Eye Institute  
RO1 EY12386, January 1, 1999 - December 31, 2005 \$2,493,748  
Principal Investigator

"Education and Group Support for Diabetic Hispanics". National Institute of Diabetes,  
Digestive and Kidney Disease  
RO1 DK, April 1, 1999 - March 31, 2004 \$840,883  
Principal Investigator (this is a subcontract to UT Austin)

"Consortium Linkage Studies for Type 2 Diabetes". National Institute of Diabetes,  
Digestive and Kidney Disease  
U10 DK058026, October 1, 1999 - August 31, 2004 \$354,603  
Principal Investigator (this is a subcontract to U Chicago)

"Injury and Illness Surveillance in Migrant Farmworkers", NIH-NIOSH  
OH04041: September 30, 1999 - August 31, 2002 \$743,888  
Co-Investigator (Sharon Cooper, PI)

“Supplement in Genetic Epidemiology Education”, NIH-NCI  
CA57730: April 1, 1999 March 31, 2004 \$101,193  
Co-Investigator (R. Chamberlain, PI)

“Pharmacogenomics and Minority Populations”, NIH-NGI  
April 1, 2000 – March 31, 2004 \$144,200  
Principal Investigator (This is subcontract to the Mark Rothstein of the University of  
Houston Health Policy Law Institute)

"NIDDM Genes in Hispanics, Blacks and Non-Hispanic Whites". National Institute for  
Diabetes, Digestive and Kidney Diseases.  
RO1 DK47487, September 30, 1993 - September 30, 2006 \$3,781,183  
Principal Investigator

"Genes and High BP: Mexican American Field Center". National Heart, Lung and Blood  
Institute  
RO1 HL54504, September 5, 1995 - August 31, 2006 \$2,269,400  
Principal Investigator

“Genomic Approaches to Common Chronic Disease”, NHGRI (Sing)  
P50 GM065509, July 01, 2001 – June 30, 2006 \$921,556  
Co-Investigator  
Develop evolutionary-population genetic methods for identifying subsets of sites to be used  
in genotyping-phenotyping studies and apply these strategies for predicting metabolic and  
physiologic measures of health in African-American and non-Hispanic European-American  
populations.

“Genetics of Diabetic Retinopathy in African Americans with Type 1 Diabetes”  
Juvenile Diabetes Research Foundation, September 1 2004 – August 31, 2008  
Principal Investigator of Subcontract 10% \$614,941  
This is a subcontract to the University of New Jersey to provide genotyping and analytic  
support to the parent project headed by Dr. Monique Roy

“Genome-Wide Association Mapping of Metabolic, Lung and Cardiovascular Phenotypes”  
HL084715, July 1, 2006 – June 30, 2009 \$132,091  
Principal Investigator of Subcontract  
The purpose of this project is to develop and apply analytic methods to genome-wide  
association data. This subcontract to the University of Chicago (Dr. Nancy J. Cox) is to  
develop pathway approaches and maintain the key data sets involving Mexican Americans  
from Starr County, Texas.

Diabetes Education with a Case Manager: Subcontract to UT Austin  
1 R34 DK073286 (Brown) 12/01/06 – 11/30/09 \$50,833  
Principal Investigator of Subcontract  
This is a pilot program to determine the potential for integrating a case manager with our  
previously developed culturally sensitive diabetes education programs. The amount here is  
for a subcontract to Dr. Hanis from the University of Texas at Austin where Dr. Sharon  
Brown is the PI.

“Genetics of Diabetic Retinopathy”

EY012386, January 1, 1999 – August 31, 2010

\$2,119,862

Principal Investigator

The purpose of this project is to identify the genes involved in the complications of diabetes with special focus on diabetic retinopathy. The amount here is for the competing continuation.

“Genetics of Type 2 Diabetes in Starr County, Texas”

R01 DK073541 (Hanis) 07/01/07 - 06/30/12

\$2,252,600

Principal Investigator

The purpose of this project is to systematically examine 500 key genes organized by pathway to determine the impact of variation in these genes and pathways on type 2 diabetes susceptibility.

“Creation of a Hispanic Health Research Center in the Lower Rio Grande Valley: Diabetes Core”

P20 MD000170, February 01, 2003 – January 31, 2013

\$791,444

Principal Investigator of Core

This project is to develop a research core related to type 2 diabetes in the Lower Rio Grande Valley of Texas. The amount here is the total for only the diabetes core and not for the entire project.

“Mapping T2DM Genes in GENNID Families”

DK077110, April 1, 2006 – March 31, 2012

\$891,268

Principal Investigator of Subcontract

The purpose of this project is map and identify genes for type 2 diabetes using the American Diabetes Association’s GENNID repository of samples and data. The PI of the project is Dr. Steven Elbein at the University of Arkansas. We share analysis and follow-up responsibilities of particular regions of the genome.

“Fine Mapping of Hypertension Genes Detected by Admixture Mapping in the FBPP”

HL086718, August 15, 2007 – June 30, 2012

\$250,704

Principal Investigator of Subcontract

The purpose of this project is to identify hypertension susceptibility loci using an admixture approach and the Family Blood Pressure Program data. This is a subcontract to Case Western Reserve University where Dr. Xiaofeng Zhu is the overall principal investigator.

“Identification and Replication of Type 2 Diabetes Genes Among Mexican Americans”

DK085501, September 20, 2009 – July 31, 2014

\$2,570,920

Principal Investigator

This is one of 5 projects funded by the NIDDK to direct and follow-up current genes implicated for type 2 diabetes using resequencing as a major tool. The parent RFA was titled, “Multiethnic Study of Type 2 Diabetes Genes”

“GWAS for Sleep Apnea and Endothelial Function Among Mexican Americans”

HL102830, July 7, 2010 – May 31, 2014

\$2,837,145

Principal Investigator

The purpose of this project is to determine the epidemiology of an axis of non-traditional risk factors (sleep apnea, endothelial function, and aortic stiffness) and identify genes contributing to susceptibility for this axis among Mexican Americans in Starr County, Texas.

“Genome-wide association to *Staphylococcus* carriage”

AI085014, July 1, 2010 – June 30, 2014

\$1,861,762

Principal Investigator (Multi-PI)

The purpose of this project is to determine the *Staphylococcus aureus* carriage status of Mexican Americans in Starr County, Texas, and to use genome-wide approaches to identify susceptibility loci.

“The Human Genome Sequencing Center at Baylor College of Medicine”

NIH, 11/01/2011 – 11/30/2015

\$1,888,593

Co-Investigator

This is a subcontract (PI, Eric Boerwinkle) to the Sequencing Center at Baylor. It represents a joining of resources between the two groups and we will provide analytic expertise and design consultations for the sequencing center.

“Epigenetic Variation at Metastable Epialleles: Effects on Human Obesity”

NIH/NIDDK, DK111522 03/01/2017 – 02/28/2022

\$278,665

Co-investigator (Subcontract PI)

DNA methylation has been shown to vary widely across the genome and to influence gene expression and development. Some sites have been shown to be methylated early in development and are associated with obesity. This project will use stored samples from studies in Starr County to determine the impact on the development of obesity over time. This represents the subcontract amount from Baylor College of Medicine where Dr. Robert Waterland is the overall PI.

“Chagas Disease and Dengue Virus Screening at the Texas-Mexico Border (Starr County, TX)”

Texas State Health Services 01/01/2018 – 08/31/2019

\$94,650

## PATENTS

Bell GI, Horikawa Y, Oda N, Cox NJ, Hanis CL “A Novel Calpain-Like Cysteine Protease in Type 2 Diabetes”. U.S. Provisional Application No. 60/105,052

Polonsky KS, Otani K, Bell GI, Horikawa Y, Oda N, Cox NJ, Hanis CL, Zhou YP, Sreenan S. “Methods of Treatment of Type 2 Diabetes”. U.S Patent Application No. 09/422,869

Polonsky KS, Otani K, Bell GI, Horikawa Y, Oda N, Cox NJ, Hanis CL, Zhou YP, Sreenan S. “Methods of Treatment of Type 2 Diabetes”. International Patent Application No. PCT/US99/248909.

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