

**Trevor J. Orchard**

DATE REVISED – 7/1/19

**CURRICULUM VITAE**

**BIOGRAPHICAL**

NAME: Trevor J. Orchard

BIRTHPLACE: Gateshead, County Durham, England

CITIZENSHIP: United Kingdom

SPOUSE NAME: Trish Orchard

BUSINESS ADDRESS: University of Pittsburgh  
DLR Building  
3512 Fifth Avenue  
Pittsburgh, PA 15213

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Monroeville, PA 15146

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**EDUCATION AND TRAINING**

**SCHOOL:**

Brighton, Hove and  
East Sussex Grammar School (1962-1969)

**UNIVERSITY:**

University College, Cardiff (1969-1971) Preclinical Studies

**MEDICAL SCHOOL:**

Welsh National School of Medicine (1971-1974) M.B.B.Ch.  
Univ. of Wales/Welsh  
National School of Medicine  
July, 1974

**POST GRADUATE:**

University of Nottingham (1976-1978) M.Med.Sci (Community Med)

**APPOINTMENTS AND POSITIONS**

**ACADEMIC:**

10/78 - 10/79 British Heart Foundation, Junior Research Fellow  
Based in the Departments of Medicine and Community Health, University of Nottingham

10/79 - 12/80 Research Physician, Department of Epidemiology  
Graduate School of Public Health, University of Pittsburgh

## **Trevor J. Orchard**

- 1/81 - 9/83 Assistant Professor, Department of Epidemiology,  
Graduate School of Public Health, University of Pittsburgh
- 10/83 - 7/92 Associate Professor, Department of Epidemiology,  
Graduate School of Public Health, University of Pittsburgh. (Tenured, 1985)
- 8/92 – 8/15 Professor, Department of Epidemiology,  
Graduate School of Public Health, University of Pittsburgh
- 9/15 – 6/19 Distinguished Professor, Department of Epidemiology,  
Graduate School of Public Health, University of Pittsburgh
- 7/19 – Present Distinguished Professor Emeritus, Department of Epidemiology  
Graduate School of Public Health, University of Pittsburgh
- 2/94 – Present Professor of Medicine  
Department of Medicine, University of Pittsburgh
- 1/95 – 6/01 Professor of Pediatrics  
Children's Hospital of Pittsburgh
- 7/02 – 5/03 Interim Chair, Department of Epidemiology,  
Graduate School of Public Health, University of Pittsburgh
- 11/08 – 9/10 Interim Chair, Department of Epidemiology  
Graduate School of Public Health, University of Pittsburgh

### NON-ACADEMIC/CLINICAL

- 7/74 - 1/75 House Physician to Professor R. Mahler, University Hospital of Wales.  
(General Medicine with special interest in Diabetes Mellitus)
- 2/75 - 8/75 House Surgeon to Mr. J.S.H. Wade and Mr. J.R.Salaman,  
University Hospital of Wales/Cardiff Royal Infirmary.  
(General surgery with special interest in Thyroid Surgery and Renal Transplantation)
- 8/75 - 9/75 Locum Senior House Officer, Haematology,  
Freedom Fields Hosp., Plymouth
- 10/75 Locum General Practice, Plymouth
- 11/75 - 10/76 Senior House Officer to Professor J.R.A. Mitchell and Dr. J. Hampton,  
Nottingham General Hospital, University of Nottingham  
(General Medicine with special interest in Cardiology and involvement in a trial of home  
versus hospital care for myocardial infarction patients)
- 10/76 - 9/78 Registrar in Community Medicine, Nottinghamshire Area Health Authority/Post  
graduate student, Dept. of Community Health and part-time General Practice experience
- 10/82 – 12/18 Medical Director, Nutrition Lipid Program, University of Pittsburgh

## **Trevor J. Orchard**

5/06 – 6/19

Medical Director, Diabetes Prevention Support Center

### **CERTIFICATION AND LICENSURE**

Registered Medical Practitioner, England, July, 1974 (Provisional), August, 1975 (Full)

E.C.F.M.G. Examination passed January, 1975

F.L.E.X. passed June, 1980

Pennsylvania Medical Licensure, January, 1981

Clinical Board of Lipidology Diplomate September 5, 2006

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### **MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

Member of the Council on Epidemiology and Prevention, International Society and Federation of Cardiology

Member of the American Diabetes Association

Fellow of the Epidemiology Council, American Heart Association

Member of the Society for Epidemiologic Research

Fellow of the American College of Epidemiology

Member of the American Epidemiological Society (Emeritus Status)

Member of the American Society for Preventive Cardiology

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### **HONORS**

1978-1979 British Heart Foundation Junior Research Fellow

1980-1985 Special Emphasis Research Career Award, NIH

1983 Fellowship (Elected) of the Council on Epidemiology, American Heart Association

1983 Member, Delta Omega Honor Society

1988 Membership, American College of Epidemiology

1989-1991 Chairman of the ADA Epidemiology & Statistics Council

1991 Membership (Elected), American Epidemiological Society

1993 Kelly West Award, American Diabetes Association

1994 Charles Best Medal (Awarded to members of the Diabetes Control and Complications Trial)

## **Trevor J. Orchard**

- 1996 George Lukin's Award, American Diabetes Association, PA Affiliate
- 2008 Kelly West Lecturer, The University of Oklahoma Health Sciences Center
- 2008 Pitt Innovator Award, University of Pittsburgh Office of the Provost and Office of Technology Management
- 2010 Stanley Wallach Lectureship Award 2010, American College of Nutrition
- 2011 Fellow (Elected) American College of Epidemiology
- 2014 2014 Provost's Award for Excellence in Mentoring, University of Pittsburgh Office of the Provost
- 2015 Faculty Honoree, University of Pittsburgh 2015 Honors Convocation
- 2015 Appointment to the rank of Distinguished Professor of Epidemiology, University of Pittsburgh
- 2016 Annual Kenny/Drash Memorial Lecturer, Children's Hospital of Pittsburgh of UPMC and the University of Pittsburgh School of Medicine, Division of Endocrinology
- 2017 Peter Bennett Award, International Diabetes Epidemiology Group

### **PROFESSIONAL ACTIVITIES**

#### **1. TEACHING: (Graduate School of Public Health, University of Pittsburgh)**

##### **Past**

- Taught parts of: Introduction to Principles of Epidemiology (EPID 211)  
Epidemiological Methods (EPID 218)  
Biological Basis of Human Health and Disease (PH 201)  
Medical Pharmacology Course (Medical School)  
Parts of Epidemiological Basis for Disease Control (EPID 2260)  
Parts of Epidemiology of selected Chronic Diseases (EPID 2170)  
Epidemiology of Cardiovascular Diseases (EPID 215) 1984
- Taught parts of: Medical Students Endocrine Disorders Course, 1994-2000
- Co-taught: Epidemiology of Cardiovascular Diseases (EPID 215) 1983, 1985-89
- Co-directed: "Peridoctoral" student epidemiology seminar series, 1982-88.
- Organized: 3 Post Graduate Symposia "Practical Management of Lipid Disorders:  
May 1985, October 1987, October 1988.
- Taught: Epidemiology Seminar Series (EPID 2250), 2009-2010
- Taught: Epidemiology of Cardiovascular Diseases (EPID 2150), 1990-2015

Visiting lecturer/professor/consultant at over 28 medical schools, medical societies and/or hospital grand rounds, 1982-Present.

## Trevor J. Orchard

Co-designed & taught Basic Research Methodology Course for General Internal Medicine Fellows, 1991-94

Taught Summer Epidemiology Course: Current Issues in Cardiovascular Epidemiology, University of Michigan, 1996.

## 2. ADVISING:

### Primary Advisor

#### Doctoral Students Completed:

Richard P. Donahue (1983) – Emeritus Professor

Epidemiology and Environmental Health, SUNY University at Buffalo

"The Beaver County Lipid Study: A Nine-Year Follow-up of a Pediatric Screening Test for Hypercholesterolemia"

Lawrence A. Kingsley (1984) – Professor Epidemiology, Professor Infectious Diseases and Microbiology  
GSPH, University of Pittsburgh

"A Prevalence Based Case-Control Study of Early Diabetic Retinopathy and Prior Metabolic Control in an Adolescent Insulin-Dependent Diabetic Cohort"

Charles Slemenda (1984) – Associate Professor of Medicine (*Deceased*)

Div. of Biostatistics, Indiana University School of Medicine

"The Effects of Insulin & Insulin Activity on Lipids and Lipoprotein with Particular Emphasis on High Density Lipoprotein Cholesterol"

Osman Ahmed (1985) – Medical Director, Population Health at WellMed

"Trends of Mortality and Hospital Case Fatality of Stroke, Allegheny County 1970-1981"

Joyce D'Antonio (1988) – Director

Office of Graduate Studies, School of Medicine, University of Pittsburgh

"Early Markers of the Long Term Complications of IDDM with a Focus on Nephropathy"

Raelene E. Maser (1989) – Associate Professor

Department of Medical Technology, University of Delaware

"Cross Sectional Study of Diabetic Neuropathy in Insulin-Dependent Diabetes Mellitus and the Interrelations of Different Modalities of Assessment"

Nam Han Cho (1989) – Professor

Department of Preventive Medicine, Ajou University School of Medicine, Suwon, Korea

"Epidemiologic Study of Spontaneous Whole Blood Platelet Aggregation in IDDM Patients and its Associations with Diabetes Complications: A Cross-Sectional Study"

Daniel T. Lackland (1990) - Professor of Epidemiology

Department of Neurology, College of Medicine, Medical University of South Carolina

"Are Race Differences in the Prevalence of Hypertension Explained by Body Mass and Fat Distribution?"

Beth Ann Coonrod (1991) – Diabetes Disease Management Coordinator

St. Clair Hospital Diabetes Center

"The Natural History, Correlates, and Predictive Value of Microalbuminuria in Individuals with IDDM."

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John R. Erbey (1999) – Chief Executive Officer and Director  
Strataca Systems, LLC, Milton, Georgia  
“Insulin Sensitivity in IDDM: The Potential Role of Double Diabetes”

Janice C. Zgibor (1999) – Associate Professor  
Department of Epidemiology and Biostatistics, University of South Florida  
“Diabetes Health Care and Vascular Complications in Patients with Type 1 Diabetes”

Jon Olson (2000) – Epidemiologist  
Connecticut Department of Public Health  
“Subclinical Vascular Disease in Type 1 Diabetes”

Michael Walsh (2004) – Assistant Professor, Department of Epidemiology and Biostatistics  
School of Public Health, SUNY Downstate Medical Center, Brooklyn, NY  
“A Multinational Assessment of Geographic Disparity in the Microvascular and Macrovascular Complications of Type 1 Diabetes”

M. Kaye Kramer (2007) – Adjunct Associate Professor  
Department of Epidemiology, University of Pittsburgh  
Chief Science Officer, Spark360  
“Diabetes Prevention and Cardiovascular Risk Reduction in Primary Care Practice”

Catherine Prince (2008) – Interventional Cardiology Fellow  
Lankenau Hospital, Wynnewood, Pennsylvania  
“Pulse Wave Analysis in Type 1 Diabetes: Relationship with Historical Measures and Prevalent Disease”

Andrea Fischl (Co-Chair) (2008) – Research Assistant Professor  
Nursing-Health Promotion and Development, University of Pittsburgh  
“Prevalence, Incidence and Risk Factors of Erectile Dysfunction in Males with Type 1 Diabetes Enrolled in the Pittsburgh Epidemiology of Diabetes Complications Study (EDC) (1986-2007)”

Bashira Charles (Co-Chair) (2008) – Instructor  
Ophthalmology Department, Howard University  
“The Genetic Basis of Diabetic Retinopathy”

Baqiyyah Conway (2008) – Assistant Professor  
University of Texas Health Science Center at Tyler (UT Health Northeast)  
“Adiposity in Type 1 Diabetes”

Christina Shay (2009) – Director, Impact and Health Metrics  
American Heart Association/American Stroke Association  
“Insulin Resistance in Type 1 Diabetes: Determinants and Clinical Consequences”

Aaron Secrest (2010) – Assistant Professor, Departments of Dermatology and Population Health Sciences  
University of Utah, Salt Lake City, UT  
“Mortality and Long-Term Morbidity in a Population-Based Type 1 Diabetes Cohort”

Raynard Washington (2012) – Chief Epidemiologist

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City of Philadelphia-Department of Public Health  
“Epidemiology of Type 1 Diabetes Complications in African Americans”

Sara (Marshall) Bazaco (2013) – Adjunct Instructor  
The Universities at Shady Grove  
“Youth and Adolescents with Type 1 Diabetes in the Life for a Child Program in Rwanda, Africa”

David Salcido (2014) – Research Assistant Professor  
Department of Emergency Medicine, University of Pittsburgh School of Medicine  
“Incidence, Outcomes and Characteristics of Rearrest After Out-of-Hospital Cardiac Arrest”

Catherine E. (Fickley) Holt (2014) – Manager, Real World and Analytics Solutions  
IQVIA  
“Psychosocial Factors and Type 1 Diabetes”

Rachel G. Miller (2016) – Research Assistant Professor  
Department of Epidemiology, University of Pittsburgh  
“Cardiovascular Disease in Type 1 Diabetes: Quantifying Risk and Addressing Limitations in the Analysis of Longitudinal Cohort Studies”

Jingchuan (Serena) Guo – Post-Doctoral Associate  
Center for Pharmaceutical Policy and Prescribing, University of Pittsburgh  
“Blood Pressure and Cardiovascular Disease in Type 1 Diabetes: an Exploration of Prediction and Control”

- Have been primary advisor for 33 master's students, and nine post-doctoral fellows.
- Served on Doctoral Thesis Committees for 20 further students

### Current Students:

- Currently: Committee member for 2 doctoral dissertations

## 3. RESEARCH ACTIVITIES

### Current Grant Support:

		<u>Per Year</u>
- Epidemiology of Diabetes Interventions & Complications Principal Investigator, 2006-2022	Case Western DK094157 (3% effort)	\$ 80,993.00
- Diabetes Prevention Program Outcomes Study (DPPOS) – Phase 3 Co-Investigator, 2016-2021	NIDDK DK048412 (5% effort)	\$ 175,778.00
- Re-Evaluating HDL in Coronary Artery Disease (RETRO HDL) Co-Investigator, 2016-2020	NHLBI HL130153 (10% effort)	\$ 225,683.00
- Compositional and Functional Alterations of HDL Over Ovarian Aging Co-Investigator, 2018-2023	NIH AG058690 (5% effort)	\$ 494,055.00

### Past:

- Epidemiology of Diabetes Complications (EDC) Phase II: Renewal (MERIT extension)	NIDDK DK034818	<u>Total Direct Cost</u> \$ 402,201.00
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Principal Investigator, 2014-2019

- Cardiovascular Epidemiology Training Program Principal Investigator, 2014-2019	NHLBI T32HL083825	\$ 221,480.00
- Renal and Epithelial Biology Training Program (P.I. – Thomas Kleyman), 2018-2023	NIDDK T32DK061296	\$ 168,311.00
- Research Training in Pediatric Endocrinology (P.I. – Radhika Muzumdar), Trainer, 2016-2021	NIH T32DK007729	\$ 209,089.00
- Research Training in Diabetes and Endocrinology (Robert O’Doherty, Director), 2016-2021	NIDDK T32DK007052	\$ 247,519.00
- Training in the Epidemiology of Aging (P.I. – Anne B. Newman), 2016-2021	NIH/NIA T32AG000181	\$ 257,556.00
- Biomarker Validation and Discovery in Diabetic Nephropathy Principal Investigator, 2015-2018	UCSD 163153/163145	\$ 20,305.00
- ApoC3, HDL Function and Cardiovascular Complications of T1DM Co-Investigator, 2015-2018	U of WA (NIH) UWSC8791	\$ 71,158.00
- Diabetes Prevention – Developing Two Computer Simulation Models Principal Investigator, 2017-2018	RTI 200-2016-92270	\$ 17,461.00
- Initiate and Maintain Physical Activity in Clinics: The IMPACT Diabetes Study Consultant, 2013-2018	NIDDK DK096394	\$ 582,945.00
- From Adolescence to Adulthood: Persons With and Without Diabetes Co-Investigator, 2012-2017	Carnegie DK060586	\$ 35,030.00
- Kidney IRon by HAptoglobin genotype (KIRHA) Co-Investigator, 2016-2017	Georgia Regents/JDRF 25732-78	\$ 72,037.00
- Extreme Phenotypes Relevant to Diabetic Complications in T1D Co-Investigator, 2013-2017	Univ of Dundee 17-2013-309	\$ 18,874.00
- Training in Renal, GI, Endocrine, and Epithelial Biology (P.I. – Thomas Kleyman), Trainer, 2004-2015	NIDDK T35DK065521	\$ 209,800.00
- Epidemiology of Diabetes Complications (EDC) Phase II: Renewal (MERIT status) Principal Investigator, 2009-2014	NIDDK DK034818	\$2,186,633.00



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- Diabetes Prevention Program Phase 2 Principal Investigator, 2009-2014	NIDDK DK048412	\$ 457,431.00
- Evaluation of Differing Type 1 Diabetes Regimens in Youth in The Developing World Principal Investigator, 2010-2013	NIDDK DK090809	\$ 860,399.00
- Imaging Biomarkers of Accelerated Brain Aging in Type 1 Diabetes Co-Investigator, 2010-2014	NIDDK DK089028	\$1,521,727.00
- Diabetes Prevention Translation Project: the Healthy LIFESTYLE Co-Investigator, 2010-2014	NIDDK DK081323	\$ 465,614.00
- Oxidative Insults, Antioxidative Responses and Type 1 Diabetes Co-Investigator, 2009-2014	NIH DK082900	\$ 100,000.00
- Pharmacologic Progression Strategies in Type 2 Diabetes Co-Investigator, 2011-2013	Sanofi Aventis	\$ 22,245.00
- Health System Based Clinical Trial Recruitment Principal Investigator, 2011-2012	NIDDK DK094518	\$ 50,000.00
- Diabetes Prevention Program Outcomes Study Principal Investigator, 2003-2009	NIDDK DK048412	\$ 413,040.00
- Evaluation of Group Lifestyle Balance Maintenance Principal Investigator, 2008-2010	Atkins	\$ 74,974.00
- Diabetes Prevention and Treatment Programs for Western PA Co-Investigator, 2008-2011	UPMC W81XWHWH0420030	\$ 966,071.00
- BARI II: A Trial of Revascularization and Glycemic Control in NIDDM, Co-Investigator, 2000-2010	NHLBI HL61744-10	\$ 767,355.00
- Epidemiology of Diabetes Complications: Phase II Principal Investigator, 2004-2009	NIDDK DK034818-24	\$ 343,349.00
- Progression of Cardiovascular Disease in T1D: CADRE/EDC Principal Investigator, 2004-2009	NIDDK DK071487-04	\$ 159,234.00
- Diabetes Prevention and Treatment Programs For Western PA Principal Investigator, 2004-2007	UPMC/DOD W81XWH0420030	\$1,642,316.00
- Diabetic Children Grow Up: Cognitive Complications (P.I. – Christopher Ryan), Co-Investigator, 2004-2008	NIDDK DK069472-04	\$ 238,435.00
- Research Training and Academic Development in Pediatric	NIDDK	\$ 182,742.00

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Diabetes - Associate Director, Epidemiology Track (Silva Arslanian, Director), 2003-2008	5T32DK063686	
- Mentor-Based Postdoctoral Minority Fellowship Principal Investigator, 2003-2005	ADA	\$ 45,000.00
- Automobile Crash Risk in Persons with Diabetes (P.I. – Thomas J. Songer), Co-Investigator, 2002-2005	NIDDK DK058353-03	\$ 74,989.00
- Oral Health of Older Type 1 Diabetic Adults (P.I. – Paul Moore), Co-Investigator, 2001-2004	NIH	\$ 125,000.00
- Epidemiology of Diabetes Complications: Phase II Principal Investigator, 1999-2004	NIDDK DK34818-19	\$ 343,633.00
- Mentor-Based Postdoctoral Fellowship Principal Investigator, 2000-2004	ADA	\$ 35,000.00
- DIACOMP Study – International Comparison of Type 1 Diabetes Complications, Co-Chairman	Industry	(total) \$ 80,000.00
- Diabetes Prevention Program (R.Wing) Co-Investigator, 1994-2003	NIDDK DK48412-08	\$ 925,720.00
- Safety and Tolerability Study of SCH 58235 Principal Investigator	Schering-Plough	\$ 4,305.00
- Cardiovascular Health Study (Field Center) Co-Principal Investigator	NHLBI N01-HC-85082	\$ 540,464.00
- A Comparative Study of Lovastatin XL with Mevacor in Patients with Hypercholesterolemia, Principal Investigator	Aura Laboratories 141-011 (Extension - 2/00-6/01)	\$ 30,514.00
- Lovastatin XL with Mevacor Extended Study Principal Investigator	Aura Labs 146-011 (2/00-1/01)	\$ 19,944.00
- A Comparative Study of Lovastatin XL with Mevacor in Patients with Hypercholesterolemia, Principal Investigator	Aura Laboratories 141-010 (6/99-7/00)	\$ 67,501.00
- Cerivastatin in Patients with Hypercholesterolemia Principal Investigator, 1998-1999	Bayer/SmithKline D97-008	\$ 90,203.00
- Aminoguanidine in Patients with Overt Diabetic Nephropathy Principal Investigator, 1995-1999	Alteon, Inc AGST0034	\$ 216,770.00
- Epidemiology of Diabetes Complications Principal Investigator, 1995-1999	NIDDK DK34818	\$5,468,973.00
- Express/FH (A Multi-Center Open Label Expanded Use Study	Merck	\$ 26,144.00

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to Evaluate the Tolerability of Simvastatin 80 mg in Patients with Familial Hypercholesterolemia) Principal Investigator, 1997-1999

- Lipid Modulation in Insulin Dependent Diabetes, 1995-1999	Merck	\$ 41,860.00
- Neurobehavioral Complications in Type I Diabetic Adults Co-Investigator, 1988-1993, 1994-1998	NIH DK39629	\$ 480,914.00 \$ 168,152.00
- Bay w6228 Cholesterol Drug Study Principal Investigator, 1995-1997	Bayer D91-031-33	\$ 201,456.50
- Double-Blind, Parallel Group Comparative Trial of Bay w6228 vs Fluvastatin in Patients with Hypercholesterolemia, 1996-1997	Bayer	\$ 94,829.00
- Risk Factors for Oral Disease in Adult Diabetics Co-Investigator, 1991-1994	NIH NIDR 1-91-4R	\$ 220,525.00
- Global Epidemiology of IDDM: Study of Host Susceptibility Epidemiology Consultant, 1990-1994	NIH DK42316	\$ 772,931.00
- Trial of New Lipid Lowering Drug (Simvastatin) Principal Investigator, 1990-1991	MSD Labs	\$ 24,240.00
- Models for Teaching High Blood Cholesterol Co-Investigator, 1989-1994	NIH HL44160	\$1,304,241.00
- Trial of New Lipid Lowering Drug (Simvastatin) Principal Investigator, 1989-1991	MSD Labs	\$ 52,080.00
- Epidemiology of Insulin and DHEAS and CHD Mortality Co-Principal Investigator, 1989-1991	NIH HL41785	\$ 48,265.00
- Scholarship Training in General Internal Medicine Coordinator - Public Health, 1988-1991	HRSA (1990-91)	\$ 450,657.00
- Familial Epidemiology of Diabetes Complications Co-Investigator, 1987-1992	NIH DK39125	\$ 314,185.00
- Evaluation of Treatment Modalities for Deep Vein Thrombosis Principal Investigator, 1987-1991	Harmarville (1990/91)	\$ 43,709.00
- Trial of New Lipid Lowering Drug (Lovastatin) Principal Investigator, 1987-1989	MSD Labs	\$ 50,000.00
- Trial of New Lipid Lowering Drug (Pravastatin) Principal Investigator, 1987-1989	Squibb	\$ 137,000.00
- Trial of New Lipid Lowering Drug (Acifran) Principal Investigator, 1986-1987	Ayerst Labs	\$ 121,000.00

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- Epidemiology of IDDM Mortality in Four Countries Co-Investigator, 1986-1994	RO1 DK35905 (1990-1994)	\$1,708,459.00
- Epidemiology of Diabetes Complications Principal Investigator, 1990-1995	NIH AM34818	\$2,974,257.00
- Community Cardiovascular Surveillance Project Co-Investigator, 1981-1983 Acting Principal Investigator, 1983-1984	NIH HV12921	\$ 161,308.00
- Juvenile Onset Diabetes, Co-Investigator, 1981-1988 Co-Principal Investigator, 1988-1993	NIH AM24021 NIH AM24021	\$1,345,930.00 \$2,617,223.00
- Epidemiology of Diabetes Complications Principal Investigator, 1985-1990	NIDDK	\$2,310,047.00
- Diabetes Epidemiology Training Program Epidemiologist, 1981-1997	NIH DK07410	\$ 621,959.00
- Special Emphasis Research Career Award Principal Investigator, 1980-1985	NIH AM 0085	\$ 263,520.00
- Cardiovascular Epidemiology Training Program Co-Program Director, 1975-1995	NIH HL07011	\$3,986,923.00

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### 4. PRESENTATIONS (See Publications/Abstracts) Other invited talks (selected):

- 6/85 Society for Epidemiologic Research: "Insulin and CVD: Master, Mediator or Mimic?"  
2/92 St. John Medical Center, Steubenville, OH:  
"Newer Therapeutic Approaches in the Management of Hypercholesterolemia"  
5/92 Lawson Wilkins Pediatric Endocrine Society, Baltimore, MD:  
"The Epidemiology of Diabetes-Related Microvascular Complications"  
6/92 Epidemiology & Statistics Council, American Diabetes Association, San Antonio, TX:  
"Gender Differences in Cardiovascular Complications"  
1/95 Diabetes Education Faculty Conference: "Diabetes Control and Macrovascular Complications"  
6/95 University of West Virginia, Charleston, WV: "Newer Therapeutic Approaches in the Management of Hypercholesterolemia"  
2/96 Bristol Myers Squibb, Diabetes Faculty, San Diego, CA:  
"Glycemic Control and Macrovascular Complications in NIDDM"  
3/96 Scientific and Clinical Symposium of Philadelphia Chapter of the ADA: G. W. Lukin's Lecture:  
"The Treatment of Lipid Disorders in Diabetes: Rationale and Recommendations"  
4/96 Pittsburgh Transplantation Institute Conf 1996: "Epidemiology of the Complications in Type 1 Diabetes"  
5/96 First World Congress on Prevention of Diabetes and Its Complications, Copenhagen, Denmark.  
"Microvascular Complications of IDDM: Epidemiologic Insights into Prevention"  
5/96 Center for Diabetes & Endocrinology, Pittsburgh: "Epidemiology of Complications in Diabetes Mellitus"  
5/96 Erie County Diabetes Association: "Prevention and Cure of Diabetes: Fact vs Fiction."  
6/96 Virgin Islands Center for Chronic Disease Research, Diabetes in African Heritage Populations Symposium:  
"Prevention of Diabetes Complications"  
9/96 3<sup>rd</sup> Intl Diab Fed Western Pacific Regional Congress, Hong Kong: "The Changing Epidemiology of IDDM"  
5/97 EDESG Meeting, Budapest, Hungary: "DIACOMP Study - Update 1996"  
5/97 National Brazilian Diabetes Seminar, Rio de Janeiro: "Epidemiology of Microvascular Complications - Pittsburgh Experience"  
5/97 National Brazilian Diabetes Seminar, Rio de Janeiro: "Predictors of Microalbuminuria"  
5/97 Universidade Federal de Sao Paulo: "Epidemiology of Microvascular Complications"  
6/97 University of Rochester Symposium: An Update on Therapy of Type 2 Diabetes Mellitus:  
"Glycemic Control and Complications"  
7/97 IDEG Symposium, Savonlinna, Finland: "Hyperglycemia-How Much, How Long?"  
3/98 American College of Cardiology: "Management of Glucose and Insulin"  
5/98 Wayne State University, School of Medicine: "Epidemiology of Diabetes and Its Complications"  
3/99 Paediatric Grand Rounds, Mercy Hospital  
4/99 Joint EDEG/GLED, Buenos Aires: "Standardization of diabetes complication measures."  
5/99 "Glycaemic and Non-glycaemic targets for Type 1 diabetes." EDEG, Verona, Italy  
5/99 "Prevention of diabetes complications/changing natural history of nephropathy." NZSSD, Tauranga, NZ  
9/99 Visiting Professor – Utrecht University Medical School, The Netherlands  
9/99 Visiting Professor – Jikei University, Tokyo, Japan. Lecture: "The Epidemiology of Diabetes Complications: Current Concepts and Future Hopes"  
5/00 Visiting Professor – University of Miami, Endocrinology Grand Rounds and Research Seminar  
8/00 "Diabetes and Heart Disease: A New Perspective on an Old Paradox." San Antonio Lipid Club  
11/00 "The Magnitude of the Problem: The DIACOMP Study" IDF Symposium, Mexico City, Mexico.  
1/01 "Diabetes and Heart Disease: A new Perspective on an Old Paradox." Israel Diabetes Association  
3/01 "The Prevention of Diabetes and Its Complications" New Issues in Nutrition and Health Symposium, University of Pittsburgh.  
6/01 "Atherosclerotic CVD and Human Diabetes." State of the Art Lecture, ADA Meeting, Philadelphia, PA  
10/01 "Insulin Resistance in Type 1 Diabetes. The Cardiovascular and Renal Consequences of Double Diabetes" EASD Meeting, Mantova, Italy

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- 10/01 XIII Brazilian Congress of Diabetes, Rio de Janeiro: “Lessons from the XX Century: DCCT and Related Experiences”
- 10/01 “The DIACOMP Study: A Brazilian emphasis” XII Brazilian Congress of Diabetes, Rio de Janeiro.
- 4/02 “Depression and Diabetes Complications” EDID, Slovenia
- 8/02 Visiting Professor: Endocrine Grand Rounds, Denver, Colorado
- 9/02 Chaired Seminar: European Association for the Study of Diabetes
- 10/02 Invited Plenary Talk: 3<sup>rd</sup> World Convention on Prevention of Diabetes and its Implications, Hong Kong: “Why is CAD in Type I Diabetes not Declining?”
- 11/02 Visiting Professor: Endocrine Grand Rounds, M.U.S.C, Charleston, SC
- 5/03 Visiting Professor: Research Rounds, Eastern Virginia Medical School, Norfolk, VA
- 6/03 Invited Symposium Speaker, ADA 63<sup>rd</sup> Scientific Seminars: “The role of Electron Beam Tomography and Carotid Ultrasound in assessing Cardiac Risk in Diabetes”
- 8/03 Presenter and Invited Chair, Joint IDEG-EDEG Meeting, Tours, France
- 8/03 Presenter (Poster) International Diabetes Federation Congress, Paris, France
- 3/04 Invited Luncheon Discussion Leader, AHA Epidemiology Council, San Francisco
- 3/04 Visiting Professor, M.U.S.C, Charleston, SC
- 5/04 Invited Lecture, 47<sup>th</sup> Annual Japan Diabetes Society, Tokyo “DCCT/EDIC 2004: An Update”
- 6/04 Invited Symposium Speaker, ADA 64<sup>th</sup> Scientific Seminars: “Trends in Mortality and Morbidity from Diabetes Complications”
- 9/04 Invited Plenary Talk, “Incidence of End-Stage Renal Disease and Survival After Renal Replacement Therapy in Patients with Type 1 Diabetes”, 40<sup>th</sup> Annual EASD, Munich, Germany
- 10/04 Invited Plenary Talk, Canadian Diabetes Association/CSEM Professional Conference and Annual Meetings, Quebec City: “Cost Effectiveness Issues in Diabetes Prevention and Care: Lessons from the Pittsburgh Epidemiology of Diabetes Complications Study”
- 4/05 Invited Plenary Talk, EDEG, Siófok, Hungary: “The value of identifying and classifying those at risk”
- 5/05 Invited Plenary Talk, Longwood Area Diabetes/Metabolism Clinical Conf, Joslin Diabetes Center, Boston: “The Changing Natural History of Diabetes Complications: Insights from the Pittsburgh Epidemiology Studies”
- 9/05 Invited Talk, Paediatric Lipid Symposium Atherosklerosa, Prague, Czech Republic: The Treatment of Familial Hypercholesterolemia in Children and Adults – A Pittsburgh Perspective”
- 9/05 Invited Talk, JDRF & ADA’s Similarities & Differences in the Complications of Type 1 and Type 2 Diabetes Workshop, Boston: “Coronary Artery Disease: Insulin Resistance Underlies the Enhanced Risk in Both Type 1 and Type 2 Diabetes”
- 2/06 Invited Talk, ADA 53<sup>rd</sup> Annual Advanced Postgraduate Course, San Francisco: “Does Improved Glycemic Control Reduce the Risk of CVD?”
- 4/06 Invited Talk, National Lipid Association 2006 Annual Scientific Sessions, Boston: “Assessing CV Risk in Patients with Type 1 Diabetes”
- 5/06 Invited Talk, 49<sup>th</sup> Annual Meeting of the Japan Diabetes Society, Tokyo: “What’s New From the DCCT/EDIC?”
- 9/06 Invited Talk, European Society of Cardiology/World Congress of Cardiology 2006, Barcelona, Spain: “Diabetic Macro- and Micro-Vasculopathy: Clues from Epidemiological and Clinical Data”
- 11/06 Invited Talk, Workshop on Glucose Control and Vascular Disease, Paris, France: “BARI-2D”
- 12/06 Invited Talk, International Diabetes Federation 19<sup>th</sup> World Diabetes Congress, Cape Town, South Africa: “Mortality in Type 1 Diabetes – Past, Present and Future”
- 5/07 Invited Talk, Eli Lilly Take Control Peaks and Valleys Symposium, Beijing, China: “Report from EDIC Study”
- 4/08 Invited Talk, Endocrinology Research Conference, Oklahoma Diabetes Center, University of Oklahoma, Oklahoma City, OK: “Glycemic Control & Heart Disease in Type 1 Diabetes: Resolving the Conflicts...and Raising More”

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- 04/08 Invited Talk, Kelley West Lecture, Dept. of Medicine Grand Rounds, Oklahoma Diabetes Center, University of Oklahoma, Oklahoma City, OK: “Diabetes and Heart Disease: Epidemiologic Lessons Learnt-and Forgotten!”
- 05/08 Invited Talk, American College of Physicians Internal Medicine 2008, Washington, DC, Meet the Professor: “Diabetes and Cardiovascular Disease: Screening, Prevention and Treatment”
- 11/08 Invited Talk, American Heart Association Scientific Sessions 2008, New Orleans, LA: “Role of Renal Complications to Increase CVD Risk”
- 11/08 Invited Talk, DIRECT International Results Meeting 2008, Stockholm, Sweden: “Long-Term Follow-Up Results of the DCCT and Other Studies”
- 12/08 Invited Talk, NIH, Bethesda, MD: “Cardiovascular Findings from the Pittsburgh Epidemiology of Diabetes Complications Study: Update 2008”
- 3/09 Invited Talk, Health Science Research 2009, Scranton-Temple Residency Program, Scranton, PA: “The Changing Natural History of Type 1 Diabetes”
- 6/09 Invited Talk, American Diabetes Association 69<sup>th</sup> Scientific Sessions 2009, New Orleans, LA: “Type 1 Diabetes, Glucose and Risk of Cardiovascular Disease”
- 6/09 Invited Talk, American Diabetes Association 69<sup>th</sup> Scientific Sessions 2009, New Orleans, LA: “BARI 2D: Summary and Implications”
- 9/09 Invited Talk, African American Diabetes Coalitions, North Charleston, SC: “The Role of Community Programs in Improving Diabetes Outcomes in the African American Population”
- 9/09 Invited Talk, Fifteenth Annual Diabetes Fall Symposium for Primary Health Care Professionals, North Charleston, SC: “The Group Lifestyle Balance Program”
- 04/10 Invited Talk, Juvenile Diabetes Research Foundation-Sponsored Workshop, Prevention Trials for Complications of Type 1 Diabetes: “Overview of Diabetes Complications from a ‘Cohort’ Study Perspective (ie DCCT/EDIC and Pittsburgh EDC)”
- 04/11 Invited Talk, 1<sup>st</sup> Varna Pediatric Endocrinology Conference “Multifaceted Diabetes”, Varna Bulgaria: “Modern Aspects of Type 1 Diabetes Mellitus: Are Chronic Complications ‘Longer’ Term Nowadays?”
- 06/11 Invited Talk, American Diabetes Association 71<sup>st</sup> Scientific Sessions 2011, San Diego, CA: “The Genetics and Pathophysiology of Cardiovascular Disease in Patients with Type 1 Diabetes”
- 09/11 Invited Lecture, 47<sup>th</sup> Annual Meeting of the European Association for the Study of Diabetes (EASD), Lisbon, Portugal: “Renal Markers Explain All Excess Mortality in Type 1 Diabetes”
- 10/11 Invited Talk, 37<sup>th</sup> Annual Meeting of the International Society for Pediatric and Adolescent Diabetes (ISPAD 2011), Miami, Beach, FL: “Macrovascular Complications”
- 01/12 Invited Talk, Gilead Sciences 2012 National Meeting, Orlando, FL: “Overview of Cardiovascular Disease and Type 2 Diabetes Mellitus”
- 09/12 Invited Talk, Juvenile Diabetes Research Foundation-Sponsored Workshop, State of Diabetes Complications in T1D 2012, New York, NY: “Longitudinal Epidemiology of Complications and Glucose Control – US Based Cohorts and Projections”
- 10/12 Invited Lecture, 48<sup>th</sup> Annual Meeting of the European Association for the Study of Diabetes (EASD), Berlin, Germany: “Predictors of Coronary Artery Disease in Type 1 Diabetes Differ by Level of Glycaemic Control”
- 5/13 Invited Talk, Pediatric Academic Societies Annual Meeting, Washington, DC: “Beyond Tight Control: Additional Strategies to Prevent Longer-Term Complications”
- 12/13 Poster Discussion, International Diabetes Federation 2013 World Diabetes Conference, Melbourne, Australia: “50 Yrs of Childhood Type 1 Diabetes: Genetic Characteristics of Survivors from the Pittsburgh Epidemiology of Diabetes Complications Study”
- 12/13 Invited Talk, International Diabetes Federation 2013 World Diabetes Congress 2013, Melbourne, Australia: “Rwanda and the University of Pittsburgh”
- 3/14 Invited Talk, Diabetes Mellitus Interagency Coordinating Committee (DMICC), Bethesda, MD: “Review Current Surveillance System for Type 1 Diabetes in Adults”

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- 4/14 Invited Talk, ASRIS, Sardinia the Island of Autoimmunity, Cagliari, Italy: “Type 1 Diabetes Complications: A 40-Year Duration Update”
- 6/14 Invited Talk, American Diabetes Association 74th Scientific Sessions 2014, San Francisco, CA: “Lipid Management”
- 9/14 Invited Talk, 40<sup>th</sup> Annual Conference of the International Society for Pediatric and Adolescent Diabetes (ISPAD 2014), Toronto, Canada: “Evaluation of Differing Type 1 Diabetes Treatment Regimens in Youth in Rwanda”
- 10/14 Invited Talk, UPMC Update in Internal Medicine 2014, Pittsburgh, PA: “Evaluating and Managing Risk Factors for Coronary Artery Disease including Hyperlipidemia”
- 4/15 Invited Talk, Endocrine Grand Rounds Conference, Riley Hospital for Children and Indiana University Hospital, Indianapolis, IN: “Epidemiology of Diabetes Complications: An Update from the EDC and DCCT/EDIC Studies”
- 5/15 Invited Talk, Practical Aspects of Diabetes Care: 5<sup>th</sup> Annual Diabetes Symposium, Winthrop University Hospital, Mineola, NY: “Update on Diabetes Complications and Treatment Options”
- 7/15 Invited Talk, 2015 Practical Ways to Achieve Targets in Diabetes Care Conference, Keystone, Colorado: “CVD in the Young with Type 1 Diabetes”
- 7/15 Invited Talk, 2015 Practical Ways to Achieve Targets in Diabetes Care Conference, Keystone, Colorado: “An Update on Microvascular Disease in Diabetes”
- 10/15 Oral Presentation, 8<sup>th</sup> Annual Meeting of the Diabetes and Cardiovascular Disease EASD Study Group, Munich Germany: “The Haptoglobin Genotype Predicts Cardio-Renal Mortality in Type 1 Diabetes”
- 12/15 Invited Talk, 14<sup>th</sup> Symposium of the International Diabetes Epidemiology Group, Vancouver, Canada: “Age at Menopause in Women with Type 1 Diabetes and Relationship with Diabetes Complications”
- 10/16 Oral Presentation, 2<sup>nd</sup> CV Outcome Trial (CVOT) Summit of the Diabetes and Cardiovascular Disease EASD Study Group, Munich, Germany: “Cardiovascular Complications of Childhood Onset Type 1 Diabetes (CO-T1D): A 50 Year Perspective of Age at Onset and C-peptide in Survivors”
- 11/16 Invited Talk, American Heart Association Scientific Sessions 2016, New Orleans, LA: “Strategies to Reduce Risk: Young Adults through Older Adults with T1DM”
- 12/16 Invited Talk, Endocrine Grand Rounds at NIDDK/DEOB, Bethesda, MD: “Youth Onset Type 1 Diabetes: A Pittsburgh-Rwanda Perspective”
- 4/17 Provost Inaugural Lecture, University of Pittsburgh, Pittsburgh, PA: “The Cardiovascular Complications of Type 1 Diabetes: A 30 Year Pittsburgh Perspective”
- 6/17 Invited Talk, American Diabetes Association 77<sup>th</sup> Scientific Sessions, San Diego, CA: “Is the Development and Progression of Complications in the Patient with Type 1 Diabetes Slowing?”
- 6/17 Oral Presentation, American Diabetes Association 77<sup>th</sup> Scientific Sessions, San Diego, CA: “The Cumulative Incidence of Advanced Renal Disease Affects over 70% of Those with Type 1 Diabetes with Long-Term Follow-Up”
- 12/17 Invited Talk, International Diabetes Federation (IDF) 2017 Congress, Abu Dhabi, UAE: “US Diabetes Prevention Program Outcome Study”
- 12/17 Invited Talk, Peter Bennett Award, 15<sup>th</sup> Symposium of International Diabetes Epidemiology Group (IDEG), Abu Dhabi, UAE: “Type 1 Diabetes Complications: Epidemiologic Insights from Pittsburgh.....and Beyond!”
- 2/18 Invited Lecture, Baraza Lecture, University of Florida Center for African Studies and the University of Florida Diabetes Institute, Gainesville, FL: “Diabetes in Africa”
- 5/18 Invited Talk, Gordon Research Conference, 2018 Epigenomics of Diabetes and Other Metabolic Diseases, Hong Kong, China: “Emerging Epidemiological Insights in the Development of Diabetic Complications”
- 10/18 Oral Session Presentation, International Society for Pediatric and Adolescent Diabetes (ISPAD) 44th Annual Conference, Hyderabad, India: “The Comparative Role of Blood Pressure (BP) and Hemoglobin A1c (HbA1c) in Predicting the 30 Years Risk of Major Diabetes Complications in Youth-Onset Type 1 Diabetes (T1D)”



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- 11/18 Invited Plenary Lecture, Worldwide Diabetes First International Clinical Course in Diabetes and Its Complications, Brasília, Brazil: “Changing Impact of Modifiable Risk Factors on the Incidence of Major Outcomes in Type 1 Diabetes”
- 11/18 Invited Talk, Worldwide Diabetes First International Clinical Course in Diabetes and Its Complications, Brasília, Brazil: “Lifestyle Adjustment: Diet and Exercise – A Feasible Solution?”
- 4/19 Invited Talk, 2019 Rachmiel Levine-Arthur Riggs Diabetes Research Symposium, Pasadena, CA: “Epidemiologic Insights Into the Development of Type 1 Diabetes Complications”
- 6/19 Invited Talk, 79<sup>th</sup> American Diabetes Association Scientific Sessions, San Francisco, CA: “Epidemiology of Macrovascular Complications”

### **5. REVIEW ACTIVITIES:**

- Adhoc NIH Site Visitor (x8), 1982-present
- Adhoc NIH Study Section Reviewer (x20), 1983-present. Most recent: April 2017
- Regular reviewer for Diabetes, Diabetes Care, Metabolism, Circulation, Atherosclerosis and Thrombosis, Epidemiology, Journal of American Medical Association, Journal of Diabetes Complications, Arteriosclerosis, Thrombosis and Vascular Biology
- Occasional reviewer for Preventive Medicine, Pediatrics, Journal of Clinical Epidemiology, New England Journal of Medicine, American Journal of Epidemiology and Annals of Epidemiology
- Associate Editor, Diabetes Care, 1991-1996
- Editorial Board, Annals of Epidemiology, 1995-2014
- Member of American Heart Association's Lipids, Lipoprotein and Epidemiology Research Review Committee, 1989-1991
- ONRC, University of Pittsburgh, 1993-1996
- American Diabetes Association, Grant Review Panel, 1999-2002
- American Diabetes Association, Abstract Reviews, 2002-2003
- European Association Study Diabetes Abstract Reviews, 2002
- Editorial Board, Diabetic Medicine, 2006-2015
- Editorial Board, International Journal of Nephrology and Renovascular Disease, 2008-2015
- Pediatric Endocrine Society, Grant Review, March 2014
- Diabetes in America, 3<sup>rd</sup> Edition, Chapter Review, 2014/2015
- American Diabetes Association, Abstract Reviews, 2014
- NIH DPP3 Review for NIDDK Repository Application, 2014
- JDRF Complications Therapies Training Awards Review, October 2014
- NIH NIDDK Type 1 Diabetes TrialNet Clinical Centers U01 Review, March 2015
- NIH NIDDK Board of Scientific Counselors Review, April 2015
- Diabetes UK, Grant Review, September 2015
- American Heart Association, Abstract Reviews, 2016
- IDF Congress 2017, Abstract Reviews, 2017
- American Heart Association, Abstract Reviews, 2017
- University of Pittsburgh Central Research Development Fund (CRDF) – Fiscal Year 2019: Application Review, April 2018
- American Diabetes Association, Abstract Reviews, 2018
- American Heart Association, Abstract Reviews, 2018
- American Heart Association, Abstract Reviews, 2019
- IDF Congress 2019, Abstract Reviews, 2019

### **6. SERVICE ACTIVITIES**

## **Trevor J. Orchard**

- Lancet Diabetes Commissioner, Co-Lead Type 1 Diabetes, 2017-present
- UCSD Cardiovascular Epidemiology External Advisory Committee, 2017-present
- Sanofi and Regeneron Pharmaceuticals Global Advisory Board, 2016
- TAMER Study Safety Officer, 2015-present
- SEARCH – OSMB (Chair), 2015-2018
- IMPACT Study Advisory Board, 2013-present
- Eli Lilly Advisory Board, Type 1 Diabetes Mellitus Modeling Board, 2014-2016
- NICHD Initiative to Advance Pediatric Therapeutics, Diabetes Working Group: Type 1 Diabetes Natural History and Biomarkers Subgroup
- ADA Consensus Conference: “Defining Pathways for Development of Disease-Modifying Therapies in Children with Type 1 Diabetes: A Consensus Report”, 2015
- AHA/ADA Scientific Statement Working Group: Type 1 Diabetes and Cardiovascular Disease, 2012-2014
- ADA/JDRF Type 1 Diabetes Resource Book Writing Group, 2012-2014
- Review ADA Position Statement on Type 1 Diabetes, 2014
- Trial Net and ITN DSMB (Board Member), 2008-2012
- AIM HIGH DSMB (Board Member), 2008-2012
- SEARCH – ESAC (Chair), 2006-2015
- National Diabetes Quality Improvement Alliance Technical Expert Panel, 2002-2005
- University of Pittsburgh, Faculty Assembly (GSPH elected representative), 2002-2004
- University of Pittsburgh, Senate Council, 2003-2004
- EASD Program Committee, 2002
- DIRECT Steering Committee, 1999-Present
- GSPH Ph.D. Examination Committee, 1995-Present
- Medical Director, Nutrition Lipid Program, 1982-Present
- IDF Paediatric Section, 1997-2003
- National Academy of Sciences Committee, Veterans and Agent Orange Update, 1997-1998
- GSPH Faculty Advancement Committee, 1993-1995, 2004-2005, Chairman: 1995-1997.
- GSPH Faculty Senate Executive Committee, Committee Member: 1995-1996
- Chaired Grant Review Committee for Obesity/Nutrition Research Center, Univ.of Pittsburgh, 1993-1996
- GSPH Faculty Senate Executive Committee, President: 1994-1995
- University Senate Health and Welfare Committee, 1990-1994
- Pittsburgh Community Heart Challenge, Advisory Board, 1990-1993
- Served on Diabetes Control & Complications Trial, Mortality and Morbidity Review Committee, 1989-1993
- Served on American Heart Association, (National) Lipoprotein, Lipid Metabolism and Epidemiology Research Study Committee 1989-1991
- American Diabetes Association Epidemiology Council:
  - Research Committee: Member: 1982-1987 Chairman: 1983/4, 1985/6
  - Council Vice Chairman: 1987-1989
  - Council Chairman: 1989-1991
- Served on American Diabetes Association, Western Pennsylvania Affiliate Board of Directors 1988-1990
- Served on American Diabetes Association, Western Pennsylvania Affiliate Research Committee, 1985-1990 Chairman 1987-1990
- Served on Pennsylvania High Blood Pressure Advisory Board and three of its subcommittees, 1983-1990 (Renamed Cardiovascular Risk Reduction Program Advisory Committee in 1988)
- Faculty Executive Committee, 1988-1989
- Served on American Heart Assoc., Pennsylvania Affiliate Healthsite/Community Site Task Force, 1988-1989
- Served on American Heart Association, Pennsylvania Affiliate, Research Peer Review Group, 1986-1988
- Served on American Heart Association, Allegheny County Chapter Community Site Task Force, 1985-1988
- Served on Human Needs and Resources Advisory Board, Municipality of Monroeville, 1985-1988

**Trevor J. Orchard**

- Educational Policy and Curriculum Committee, 1983-1988
- GSPH International Dimensions Committee, 1982-1986

**PUBLICATIONS**

**REFEREED ARTICLES:**

1. Salaman JR, Millar D, Bram P, Orchard TJ. Immune responses in dialysis patients. *Transplantation* 1976; 22(4): 330.
2. Dunn K, Orchard TJ. Families with hyperlipoproteinemia: do they want to know? *Practitioner* 1978; 221: 401.
3. Orchard TJ, Rodgers M, Hedley AJ, Mitchell JRA. Changes in blood lipids and blood pressure during adolescence. *BMJ* 1980; 280: 1563-1567.
4. Orchard TJ. Epidemiology in the 80's - need for a change? *Lancet* 1980; (2): 845-846.
5. Bell GD, Bradshaw JP, Burgess A, Ellis W, Harton J, Nuddleton A, Middleton B, Orchard TJ, White DA. Elevation of serum HDL cholesterol by Rowachol, a proprietary mixture of six pure monoterpenes. *Atherosclerosis* 1980; 36: 47-54.
6. LaPorte RE, Fishbein HK, Drash AL, Kuller LH, Schneider BB, Orchard TJ, Wagener DK. The Pittsburgh IDDM Registry: incidence of IDDM in Allegheny County, PA (1965-1976). *Diabetes* 1981; 30(4): 279-284.
7. Orchard TJ, Rodgers M, Hedley AJ, Mitchell JRA. Serum lipids in a teenage population - geographic, seasonal and familial factors. *Int J Epidemiol* 1981; 10(2): 161-170.
8. LaPorte RE, Orchard TJ, Kuller LH. The Pittsburgh insulin dependent diabetes (IDDM) registry: the relationship of IDDM incidence to social class. *Am J Epidemiol* 1981; 114(3):379-384.
9. Orchard TJ, Becker DJ, Kuller LH, Drash AL, Banks M. Age and sex variations in glucose tolerance and insulin responses: parallel with cardiovascular risk. *J Chronic Dis* 1982; 35:123-132.
10. Orchard TJ, Hedley AJ, Mitchell JR. The distribution and associations of blood pressure in an adolescent population. *J Epidemiol Community Health* 1982; 36(1):35-42.
11. Wagener D, Kuller LH, Orchard TJ. Pittsburgh Diabetes Mellitus Study II. Secondary attack rates in families with insulin dependent diabetes mellitus. *Am J Epidemiol* 1982; 115(6):868-878.
12. Orchard TJ, Daneman D, Becker DJ, Kuller LH, LaPorte RE, Drash AL, Rabin B, Wagener D. Glycosylated hemoglobin: a screening test for diabetes mellitus. *J Prev Med* 1982; 11:595-601.
13. Fishbein HA, LaPorte RE, Orchard TJ. The Pittsburgh insulin dependent diabetes mellitus (IDDM) registry: seasonal incidence of IDDM by the host characteristics. *Diabetologia* 1982; 23:83-85.
14. Orchard TJ, Becker D, Kuller LH, Bates M. Plasma insulin and lipids: an atherogenic connection? *Am J Epidemiol* 1983;118(3): 326-337.
15. Laskarzewski PM, Morrison JA, Gutai J, Orchard TJ, Khoury PR, Gleuck CJ. High and low density lipoprotein concentrations in adolescent boys: relationships with endogenous testosterone, estradiol and quetelet index. *Metabolism* 1983; 32(3):262-271.

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17. Wagener DK, LaPorte RE, Orchard TJ, Cavender D, Kuller LH, Drash A. The Pittsburgh diabetes mellitus Study III. An increased prevalence with older maternal age. *Diabetologia* 1983; 25:82-85.
18. Orchard TJ, Donahue RP, Kuller LH, Drash AL. Cholesterol screening in childhood: does it predict adult hypercholesterolaemia? *J Pediatr* 1983; 103(5):687-691.
19. Dorman JS, LaPorte RE, Kuller LH, Cruickshanks KJ, Orchard TJ, Wagener DK, Becker DJ, Cavender DE, Drash AL. Pittsburgh IDDM morbidity and mortality study: mortality results. *Diabetes* 1984; 33:271-277.
20. Cavender DE, Wagener DK, Rabin BS, Becker DJ, Orchard TJ, Eberhardt MS, LaPorte RE, Drash AL, Kuller LH. The Pittsburgh IDDM study. HLA antigens and haplotypes as risk factors for the development of IDDM in IDDM patients and their siblings. *J Chronic Dis* 1984; 37(7):555-568.
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22. Doft BH, Kingsley LA, Orchard TJ, Kuller LH, Drash AL, Becker DJ. The association between long-term diabetic control and early retinopathy. *Ophthalmology* 1984; 91(7):763-768.
23. Cruickshanks KJ, Orchard TJ, Becker DJ. The cardiovascular risk profile of adolescents with insulin-dependent diabetes mellitus. *Diabetes Care* 1985; 8(2):118-124.
24. Donahue RP, Orchard TJ, Kuller LH, Drash AL. Lipids and lipoprotein in a young adult population: The Beaver County Lipid Study. *Am J Epidemiol* 1985; 122(3): 458-467.
25. Barrett-Connor E, Orchard TJ. IDDM and ischemic heart disease. *Diabetes Care* 1985; 8(1):65-70.
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29. Japan and Pittsburgh Childhood Diabetes Research Groups at the Onset of Taiwan Insulin-dependent Diabetes in Japan. The Results of a Nationwide Survey. *Diabetes* 1985; 34: 1241-1246.
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47. Japan and Pittsburgh Childhood Diabetes Research Groups. Infection and IDDM in Japan and Pittsburgh. *Jikeikai Medical Journal* 1988; 35(4): 427-436.
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### **INVITED BOOK CHAPTERS/EDITORIALS/REVIEWS/SYMPOSIA (\*Invited Speaker) and REPORTS**

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462. Nunley KA, Orchard TJ, Ryan CM, Miller R, Costacou T, Rosano C. Statin use and cognitive impairment in middle-aged adults with type 1 diabetes. The New York Academy of Sciences Disease Drivers of Aging: 2016 Advances in Geroscience Summit, April 13-14, 2016, New York, NY (Poster).
463. Costacou T, Orchard TJ. Persistent versus intermittent microalbuminuria and coronary artery disease (CAD) in type 1 diabetes. European Diabetes Epidemiology Group Annual Meeting, April 16-19, 2016, Kildare, Ireland (Poster presentation).
464. Costacou T, Orchard TJ. CVD mortality by gender in individuals with long-duration type 1 diabetes. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster).
465. Costacou T, Orchard TJ. Ferritin concentrations by haptoglobin genotype in type 1 diabetes. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster).
466. Denic H, Costacou T, Rubinstein DN, Orchard TJ. Age at menarche and type 1 diabetes (T1D) microvascular complications. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster discussion).
467. Orchard TJ, Miller RG, Mahajan HD. Cardiovascular disease (CVD) risk in young adults with type 1 diabetes (T1D) remains increased compared to the general population: The Pittsburgh Epidemiology of Diabetes Complications (EDC) Study. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Oral presentation).
468. Miller RG, Costacou T, Orchard TJ. Blood pressure and 25-year risk of coronary artery disease (CAD) in type 1 diabetes (T1D): The Pittsburgh Epidemiology of Diabetes Complications (EDC) Study. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Oral presentation).
469. Pambianco G, Orchard TJ. Gender differences in severe hypoglycemia (SH) before and after continuous subcutaneous insulin infusion (CSII). 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster).

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470. Swasey KK, Costacou T, Arena VC, Orchard TJ. Trends in cardiovascular risk factor management in type 1 diabetes (T1D). 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster).
471. Sibomana L, Orchard TJ, on behalf of the Rwanda Diabetes Association, the University of Pittsburgh, Marjorie's fund, and the Life for a Child Program (LFAC). Assessment of a long-term outcome of a residential camp on diabetes management in Rwanda. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster).
472. Helgeson VS, Libman I, Orchard T, Becker D, Seltman H. Rates and predictors of diabetes-related complications in young adults with T1D complications in youth with T1D. 76<sup>th</sup> American Diabetes Association Scientific Sessions, June 10-14, 2016, New Orleans, LA (Poster presentation).
473. Orchard T, Costacou T, Becker D. Cardiovascular complications (CVD) of childhood onset type 1 diabetes (CO-T1D): a 50 year perspective of age at onset and C-peptide in survivors. 2<sup>nd</sup> CVOT (Cardiovascular Outcome Trial) Summit of the Diabetes and Cardiovascular Disease EASD Study Group, October 20-21, 2016, Munich, Germany (Oral presentation).
474. Helgeson VS, Seltman H, Orchard T, Becker D, Libman I. Youth with type 1 diabetes: Psychosocial predictors of risk factors and diabetes-related complications 11 years later. Paper presented at the Society of Behavioral Medicine, March, 2017.
475. Costacou T, Orchard TJ. Magnetic resonance detection of kidney iron deposition by microalbuminuria status among individuals with type 1 diabetes. European Diabetes Epidemiology Group Annual Meeting, May 6-9, 2017, Dubrovnik, Croatia (Poster presentation).
476. Orchard TJ, Costacou T. The cumulative incidence of advanced renal disease affects over 70% of those with type 1 diabetes with long term follow up. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Oral presentation).
477. Miller RG, Orchard TJ. Is statin use associated with increased albuminuria and worsening glycemic control in type 1 diabetes (T1D)? 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Oral presentation).
478. Miller RG, Orchard TJ. Factors associated with statin initiation for primary coronary artery disease (CAD) prevention in type 1 diabetes (T1D). 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
479. Guo J, Miller RG, Costacou T, Orchard TJ, Follansbee WP. An abnormal multigated acquisition scan for left ventricular ejection fraction predicts major complication outcomes of type 1 diabetes. The Pittsburgh Epidemiology of Diabetes Complications Study. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
480. Pambianco G, Orchard TJ. Does a history of hospitalization for severe hypoglycemic (HSH) predict all cause mortality in long duration type 1 diabetes (T1D)? 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
481. Williams KV, Orchard TJ. Insulin resistance in prevalent coronary artery disease and overt nephropathy

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- in type 1 diabetes. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Publication only).
482. Sibomana L, Briskin I, Rwabufigiri B, Gishoma C, Narayanan S, Baker J, Ogle G, Orchard T. Diabetes related quality of life (QoL) in Rwandan youth with type 1 diabetes. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
483. Costacou T, Orchard TJ, Moon C-H, Bae K, Fried L, Evans RW. Magnetic resonance detection of kidney iron deposition by haptoglobin (Hp) genotype in type 1 diabetes (T1D): Results from the Kirha Study. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
484. Pagan Banchs P, Fu H, Arena VC, Ho J, Muzumdar R, Orchard TJ, Libman I. Soluble alpha klotho is associated with diabetes duration and glycemic control in youth with T1D. 77<sup>th</sup> American Diabetes Association Scientific Sessions, June 9-13, 2017, San Diego, CA (Poster).
485. Costacou T, Orchard TJ. Correlates of serum uric acid concentration and association with hypertension status in type 1 diabetes. IDF 2017 Congress, December 4-8, 2017, Abu Dhabi, U.A.E. (Poster).
486. Rezende P, Everett BM, Brooks MM, Vlachos H, Orchard T, Frye RL, Bhatt DL, Hlatky M. Association of hypoglycemia episodes with elevated troponin levels. Submitted: American Heart Association Scientific Sessions 2017, November 11-15, 2017, Anaheim, CA.
487. Costacou T, Rubinstein D, Orchard TJ. The association of pregnancy number and outcome with mortality in type 1 diabetes. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster discussion).
488. Costacou T, Rubinstein D, Orchard TJ. Prediction of adverse pregnancy outcomes among women with type 1 diabetes. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster).
489. Guo J, Nunley KA, Rosano C, Orchard TJ. Progression of coronary artery calcification is associated with clinically relevant cognitive impairment in type 1 diabetes. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster).
490. Guo J, Orchard TJ. Predictive utilities of blood pressure variables on coronary artery disease (CAD) in type 1 diabetes. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Oral presentation).
491. Khouja T, Miller RG, Moore PA, Orchard TJ, Costacou T. The extent of severe periodontal disease as a predictor of cardiovascular complications and mortality in type 1 diabetes (T1D). 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster).
492. Miller RG, Orchard TJ. Risk factors for major atherosclerotic cardiovascular events (MACE) in type 1 diabetes (T1D): The Pittsburgh Epidemiology of Diabetes Complications (EDC) study. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Oral presentation).
493. Miller RG, Orchard TJ. Risk factors differ by first manifestation of cardiovascular disease (CVD) in type 1 diabetes (T1D). 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018,

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Orlando, FL (Poster).

494. Pambianco G, Orchard T. Severe hypoglycemia (SH) and diabetic ketoacidosis (DKA) hospitalization rates – Twenty-five years in the Epidemiology of Diabetes Complications (EDC) study. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster).
495. Williams K, Costacou T, Becker DJ, Orchard TJ. Persistent C-peptide levels and proliferative retinopathy in childhood onset type 1 diabetes (T1D). 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster discussion).
496. Basu A, Braffett BH, Jenkins AJ, Bebu I, Klein RL, Lopes-Virella MF, Dagogo-Jack S, Orchard TJ, Wallia A, Lachin JM, Garvey WT, Lyons TJ, and the DCCT/EDIC Research Group. Uric acid and cardiovascular disease in type 1 diabetes. 78<sup>th</sup> American Diabetes Association Scientific Sessions, June 22-26, 2018, Orlando, FL (Poster).
497. Orchard TJ, Miller RG, Costacou T. Insulin Resistance and CVD risk: A time varying analysis in type 1 diabetes. 54<sup>th</sup> Annual Meeting of the European Association for the Study of Diabetes (EASD), 1-5 October 2018, Berlin, Germany (Poster presentation).
498. Guo J, Ogle GD, Miller RG, Costacou T, Orchard TJ. The comparative role of blood pressure (BP) and hemoglobin A1c (HbA1c) in predicting the 30 years risk of major diabetes complications in youth-onset type 1 diabetes (T1D). International Society for Pediatric and Adolescent Diabetes (ISPAD) 44th Annual Conference, October 11-14, 2018, Hyderabad, India (Oral session presentation).
499. Miller RG, Liping Y, Costacou T, Becker DJ, Orchard TJ. Prevalence and characteristics of islet autoantibody (AA) positivity in long-duration type 1 diabetes (T1D). The European Diabetes Epidemiology Group meeting, Luxembourg, May 11-14 2019 (Poster presentation).
500. Costacou T, Orchard TJ. Physical and mental health functioning in type 1 diabetes. The European Diabetes Epidemiology Group meeting, Luxembourg, May 11-14 2019 (Poster presentation).
501. Valo E, Darshi M, Zhang J, Ahluwalia TS, Kim J, Saito R, Montemayor D, Sandholm N, Forsblom C, de Boer I, Pennathur S, Kretzler M, Snell-Bergeon J, Orchard T, Rossing P, Groop P-H, Natarajan L, Sharma K. Urine metabolites predict rapid renal function decline in individual with T1D. 32<sup>nd</sup> Annual Meeting of European Diabetic Nephropathy Study Group, May 24-25, 2019, Paris, France (Oral presentation).
502. Ju J, Tomaszewski EL, Orchard TJ, Costacou T. The haptoglobin 2 allele is associated with cardiac autonomic neuropathy in both type 1 diabetes and controls: The Retro HDLc study. 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster).
503. Costacou T, Orchard TJ. Depressive symptomatology is a major predictor of incident disability in a cohort of childhood onset type 1 diabetes. 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Oral presentation).
504. Costacou T, Saenger AK, Orchard TJ. hsTroponin and NT-proBNP in type 1 diabetes (T1D): Association with incident cardiovascular disease (CVD) and major atherosclerotic cardiovascular events (MACE). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Oral presentation).

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505. Williams KV, Shay CM, Price J, Orchard TJ, Kelley D. Heterogeneity of skeletal muscle (SM) insulin resistance (IR) in type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster discussion).
506. Williams KV, Shay CM, Price J, Orchard TJ, Kelley D. Skeletal muscle (SM) insulin resistance (IR) in coronary artery disease (CAD) in type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster discussion).
507. Tomaszewski EL, Orchard TJ, Hawkins MS, Songer T, Maynard JD, Costacou T. Skin intrinsic fluorescence (SIF) scores and mortality risk in type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster).
508. Miller RG, Costacou T, Onengut-Gumuscu S, Chen WM, Rich SS, Orchard TJ. An insulin resistance genetic risk score (IR\_GRS) is associated with mortality in type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster discussion).
509. Miller RG, Costacou T, Onengut-Gumuscu S, Chen WM, Rich SS, Orchard TJ. A variant in the melanocortin-4 receptor (MC4R) locus is associated with glycemic control and insulin resistance (IR) in type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster discussion).
510. Guo J, Miller RG, Costacou T, Orchard TJ. Optimal blood pressure goals for cardiovascular health in individuals with type 1 diabetes. 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster).
511. Guo J, Costacou T, Orchard TJ. Heart failure (HF) and its risk factors in long-duration type 1 diabetes (T1D). 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Poster).
512. Braffett B, Gubitosi-Klug R, Albers JW, Feldman EL, Martin C, White NH, Orchard TJ, Lopes-Virella MF, Raskin P, Pop-Busui R, The DCCT/EDIC Study Group. Risk factors for peripheral and cardiovascular autonomic neuropathy in type 1 diabetes: 30 years of follow-up in DCCT/EDIC. 79<sup>th</sup> American Diabetes Association Scientific Sessions, June 7-11, 2019, San Francisco, CA (Oral presentation).