



The Pinnacle Society represents the American Diabetes Association's commitment to acknowledge and honor our major gift donors and offers a structure that will allow major donors to give to the best of their ability over time. Donors can reach higher Pinnacle levels by giving additional cumulative gifts to the Association or the ADA Research Foundation. Pinnacle Society membership is a strong demonstration of commitment to support our mission — *to prevent and cure diabetes and to improve the lives of all people affected by diabetes*. A donor can choose to become involved in the Pinnacle Society in a variety of ways and pledge a gift over 3–5 years. A gold Pinnacle Society pin is conferred at the Pinnacle level, and a diamond chip is added to the pin for each subsequent level.

Pinnacle Society Levels and Benefits

PINNACLE APEX – \$1,000,000 and above

A customized stewardship plan that includes all Pinnacle Society benefits and

- Named ADA program or research project with special Request for Application in a targeted research area
- Yearly update on projects by National Vice President of Research Programs
- Personal research updates from scientists
- Customized facility or laboratory tour
- Special announcement in *Diabetes Forecast*
- Invitation to an international diabetes conference
- Special recognition/announcement at ADA's annual Community Assembly, Scientific Sessions, and Pinnacle Society meeting

PINNACLE CREST – \$500,000 to \$999,999

- Request for Application in a targeted research area beginning at the \$600,000 level
- Named ADA program or research project at the \$500,000 level
- Invitation to annual Pinnacle Society meeting and special reception at another appropriate opportunity
- Invitation to ADA annual Community Assembly and Scientific Sessions
- All of the following *Crown* benefits

PINNACLE CROWN – \$250,000 to \$499,999

- Full sponsorship of a named ADA program or research project
- Customized facility or laboratory tour
- Web site and annual report recognition for the duration of the sponsorship
- All of the following *Spire* benefits

PINNACLE SPIRE – \$100,000 to \$249,999

- Partial or full sponsorship of an ADA program or researcher
- Press releases on gifts
- Acknowledgment in scientific journal articles
- Invitation to research update event
- Annual report recognition for the duration of the sponsorship
- All of the following *Plus* benefits

PINNACLE PLUS – \$50,000 to \$99,999

- Partial sponsorship of an ADA program or research project
- Special thank-you letter from selected program director or researcher
- Annual project report from selected program director or scientist
- All of the following *Pinnacle* benefits

PINNACLE – \$10,000 to \$49,999

- Recognition in the ADA annual report
- Invitation to annual Pinnacle Society meeting
- Pinnacle pin presentation at Pinnacle Society Meeting or another appropriate opportunity



National Office
1701 North Beauregard Street
Alexandria, VA 22311
www.diabetes.org
1-888-700-7029

AMERICAN DIABETES ASSOCIATION

A W A R D R E C I P I E N T S
2006





DIABETES UPDATE

Diabetes Is an Epidemic

Nearly 21 million Americans have diabetes and 54 million have pre-diabetes. This year, approximately 1,300,000 adults will be diagnosed with the disease; type 2 diabetes is being diagnosed in children and adolescents with increasing frequency. One in three Americans, and one in two minorities, born in 2000 will develop diabetes if current trends continue.

Diabetes takes a huge toll on human lives and on health care costs. Health care expenses for a person with diabetes are up to five times higher than those of people without diabetes. In 2002, direct and indirect medical expenditures attributable to diabetes in the U.S. were \$132 billion.

Accomplishments

Charitable gifts to the American Diabetes Association (ADA) and the ADA Research Foundation make scientific advances possible. Some ongoing ADA-sponsored research projects have

- isolated and identified an adult pancreatic stem cell, which can potentially develop into insulin-producing cells in the pancreas. If this cell can replicate itself in the laboratory, it could produce unlimited quantities of specialized cells for treating diabetes.
- discovered seven genetic defects responsible for causing obesity.
- determined whether some therapies used to treat hypertension and elevated cholesterol can help prevent type 2 diabetes.
- developed a line of human beta cells that secrete insulin and function like healthy pancreatic beta cells, and can replicate to form large numbers of cells for transplantation.

Ensuring the Best Research

ADA-funded research provides scientific insights that benefit everyone affected by diabetes.

You can help the ADA find new ways to treat diabetes and its complications and, ultimately, discover a cure. By becoming a Pinnacle Society member, you support research that is

- exploring genetic and environmental factors that may trigger the onset of diabetes.
- finding new approaches to delay or prevent type 2 diabetes.
- creating new cell replacement therapies utilizing stem cell research as well as alternative forms of insulin replacement.
- studying new ways to prevent hypoglycemia, cardiovascular and microvascular complications, nephropathy, retinopathy, and neuropathy.
- preventing and treating diabetes through educational, behavioral, and psychosocial approaches to patient care.
- designing improved and culturally accessible health care delivery systems.
- preventing the cascade of health problems accompanying pregnancy in women with diabetes.

During 2004, the ADA Research Foundation allocated \$36,500,000 to more than 450 awards nationwide. In 2005, we allocated \$40,000,000 to 500 awards at 160 institutions. In fiscal year 2006, we allocated \$46,400,000.

Research is the only path to curing diabetes and improving care. Now is the time to fund the research that ultimately will improve the lives of people with or at risk for diabetes. Contact the American Diabetes Association Research Foundation to learn how you can sponsor a research opportunity.

For more information contact:
Office of Individual Giving
1701 North Beauregard Street
Alexandria, VA 22311
1-888-700-7029
giving@diabetes.org



THE AMERICAN DIABETES ASSOCIATION RESEARCH AWARDS

Research Awards

ADA-ASP Young Investigator Innovation Award in Geriatric Endocrinology

Award Amount: \$150,000 Term: 2 years

The American Diabetes Association (ADA) – Association of Subspecialty Professors (ASP) Young Investigator Innovation Award in Geriatric Endocrinology provides grant support to entry-level faculty integrating geriatrics with novel basic, clinical, or health services diabetes research.

Clinical Research Award

Award Amount: \$600,000 Term: 3 years

These clinical trials use human patients in controlled experiments. This essential research tests new diabetes prevention and treatment methods.

Henry Becton Innovation Award

Award Amount: \$100,000 Term: 2 years

Funded by Becton, Dickinson and Company, this pilot and feasibility grant supports clinical research in the areas of

1. Medical informatics in direct patient therapy
2. Advanced methods of insulin delivery
3. Community-based care
 - Role of allied health professionals
 - Care of children with type 2 diabetes

Innovation Award

Award Amount: \$100,000 Term: 2 years

This pilot and feasibility grant is designed to support novel hypotheses that may lack preliminary data, but which offer considerable promise for the prevention or treatment of diabetes.

Research Award

Award Amount: \$300,000 Term: 3 years

This research grant provides preeminent diabetes researchers with the resources to improve diabetes therapies, develop new preventions, and find a cure.

Development Awards

Career Development Award

Award Amount: \$912,500 Term: 5 years

Career Development Awards enable new faculty investigators to make the critical transition to independent investigator status. The Career Development Award winner receiving the top score in a given fiscal year is named the “Thomas R. Lee Career Development Award” winner.

Distinguished Clinical Scientist Award

Award Amount: \$800,000 Term: 4 years

This award supports outstanding researchers and thought leaders who have made novel or watershed contributions to clinical diabetes research and who will continue to provide leadership in their research area.

Junior Faculty Award

Award Amount: \$414,000 Term: 3 years

This award assists promising new investigators in developing their independence as diabetes researchers.



THE AMERICAN DIABETES ASSOCIATION RESEARCH AWARDS

Targeted Awards

Islet Cell Replacement in Type 1 Diabetes Award

Award Amount: \$1,000,000 Term: 4 years

This award provides support for three major areas of research that focus on cell-based insulin replacement in type 1 diabetes: stem cell research, genetic engineering of non-pancreatic cells to produce insulin, and transplantation research. Pinnacle Apex sponsors for this award are Edsel Ford, II, and Cynthia Ford and Don and Arleen Wagner.

Lions SightFirst Diabetic Retinopathy Award

- Clinical Research Awards
Award Amount: \$300,000 Term: 2–3 years
- Training Awards
Award Amount: \$80,000 Term: 2–3 years
- Equipment Grants
Award Amount: \$25,000 Term: 2–3 years

These research, training, and equipment grants, funded by the Lions Clubs International Foundation, support clinical or applied research in diabetic retinopathy in the U.S. and abroad. Awards are given to support new treatment regimens, epidemiology, and translation research.

Novo Nordisk Clinical Research Award

Award Amount: \$300,000 Term: 3 years

This award provides funding for educational and behavioral clinical outcomes studies supporting patients with type 2 diabetes in making the decision to choose, initiate, and continue insulin therapy.

Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Award Amount: \$1,425,000
(\$200,000 per project) Term: 2 years (renewable)

This award was established to stimulate new collaborations between investigators working on independent but complementary basic science, clinical, and translational research projects to better understand or prevent the onset of type 2 diabetes.

Terry and Louise Gregg Diabetes in Pregnancy Research Award

Award Amount: \$300,000 Term: 3 years

This award supports clinical and basic science studies in several areas of research that focus on diabetes in pregnancy, including the role of leptin in fetal growth, regulation of placental vascular growth, changes in beta-cell mass and C-peptide during pregnancy, the role of cytokines in placental and fetal growth, and the influence of maternal autoantibodies on the fetus.

Training Awards

ADA-EASD TransAtlantic Fellowship Award

Award Amount: \$50,000 Term: 1 year

This award is designed to facilitate collaboration between European and American scientists. Fellowships support investigators from Europe to study in the U.S. and U.S. fellows to study in Europe.

ADA-Takeda Pharmaceuticals Mentor-Based Minority Postdoctoral Fellowship Award

Award Amount: \$45,000 Term: 2–3 years

This fellowship supports the training of an underrepresented minority postdoctoral fellow with an established diabetes investigator.

Medical Scholars Award

Award Amount: \$30,000 Term: 1 year

This award enables medical students to participate in basic and clinical diabetes research studies.

Mentor-Based Postdoctoral Fellowship Award

Award Amount: \$180,000 Term: 4 years

This fellowship trains a promising diabetes researcher working under the tutelage of an established investigator. The American Podiatric Medical Association co-supports one of these awards.

Physician Scientist Training Award

Award Amount: \$90,000 Term: 3 years

This award provides support for MD/PhD students pursuing a career in diabetes research. The interest can be in either basic or clinical research.

**ALABAMA****Connie L. Kohler, DrPH**

University of Alabama at Birmingham
Birmingham, AL

Type of Support: Clinical Research Award

Project Title: Evaluation of a radio drama to reduce diabetes risk behavior

Suresh T. Mathews, PhD

Auburn University
Auburn, AL

Type of Support: Junior Faculty Award

Project Title: Role of alpha 2-HS glycoprotein in insulin resistance: Mechanism and functional characterization

Paul E. Wolkowicz, PhD

University of Alabama at Birmingham
Birmingham, AL

Type of Support: Research Award

Project Title: Prostaglandin E2 activation of heart contractility in insulin-dependent diabetes

ARIZONA**Peter H. Bennett, MB, FRCP, FFCM**

National Institutes of Health
Phoenix, AZ

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: An explanation for the increase in heart disease mortality rates in diabetic Pima Indians: Effect of renal replacement therapy

Clifton Bogardus, MD

National Institutes of Health
Phoenix, AZ

Type of Support: Distinguished Clinical Scientist Award

Project Title: Etiology of diabetes and obesity in Pima Indians

Clifton Bogardus, MD

National Institutes of Health
Phoenix, AZ

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Genetic determinants of obesity and type 2 diabetes mellitus in Pima Indians

Lawrence John Mandarino, PhD

Arizona State University
Tempe, AZ

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanisms of insulin resistance in human muscle

Christian Meyer, MD

Carl T. Hayden Veterans Affairs Medical Center
Phoenix, AZ

Type of Support: Career Development Award

Project Title: Effect of short-term beta-adrenergic blockade on hypoglycemia unawareness

Peter David Reaven, MD

Carl T. Hayden Veterans Affairs Medical Center
Phoenix, AZ

Type of Support: Clinical Research Award

Project Title: Mechanisms of atherosclerosis and macrovascular disease in type 2 diabetes

Johanna K. Wolford, PhD

Translational Genomics Research Institute
Phoenix, AZ

Type of Support: Career Development Award

Project Title: Genetic basis of diabetic nephropathy

Johanna K. Wolford, PhD

Translational Genomics Research Institute
Phoenix, AZ

Type of Support: Minority Undergraduate Internship Award

Project Title: Identification of genes predisposing to diabetic nephropathy

**ARKANSAS****Robert Clayton Bunn, PhD**

University of Arkansas for Medical Sciences
Little Rock, AR

Type of Support: Junior Faculty Award

Project Title: Pro-atherosclerotic gene expression in macrophages: Regulation by insulin and effects on smooth muscle cells

Steven C. Elbein, MD

University of Arkansas for Medical Sciences
Little Rock, AR

Type of Support: Research Award

Project Title: Characterization of type 2 diabetes susceptibility alleles at the PKLR locus

Beata Lecka-Czernik, PhD

University of Arkansas for Medical Sciences
Little Rock, AR

Type of Support: Research Award

Project Title: The effect of anti-diabetic PPAR-gamma antagonists on bone

Randall Joseph Owens, PhD

University of Arkansas for Medical Sciences
Little Rock, AR

Type of Support: Clinical Research Award

Project Title: Regulation of adiponectin in adipocytes by thiazolidinediones

CALIFORNIA**Sharon Gail Adler, MD**

Harbor-UCLA Research and Education Institute
Torrance, CA

Type of Support: Research Award

Project Title: Preventing diabetic nephropathy by restoring a protective adaptation: Mechanism and practice

Kaveh Ashrafi, PhD

University of California, San Francisco
San Francisco, CA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: *C. elegans* RNAi Screen

Funded by: *The Richard & Susan Smith Family Foundation*

Ganesaratnam K. Balendiran, PhD

City of Hope, Beckman Research Institute
Duarte, CA

Type of Support: Research Award

Project Title: Role of fibrates in diabetes and its complications

John Darling Baxter, MD

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: Thyroid hormone receptor beta modulated genes involved in fatty acid metabolism and cholesterol homeostasis

Thomas Allen Buchanan, MD

University of Southern California
Los Angeles, CA

Type of Support: Distinguished Clinical Scientist Award

Project Title: Etiology, pathogenesis and prevention of type 2 diabetes

George K. Chandy, MD, PhD

University of California, Irvine
Irvine, CA

Type of Support: Research Award

Project Title: Potassium channels in lymphocytes: Therapeutic targets for immunomodulation in type 1 diabetes mellitus

**Nai-Wen Chi, MD, PhD**

University of California, San Diego
La Jolla, CA

Type of Support: Career Development Award

Project Title: Characterization of tankyrase, an insulin signaling target, as a regulator of glucose homeostasis

Roger Alan Davis, PhD

San Diego State University
San Diego, CA

Type of Support: Innovation Award

Project Title: Role of thioredoxin interacting protein in insulin secretion, beta-cell function and diabetes

Andrew G. Dillin, PhD

Salk Institute for Biological Studies
La Jolla, CA

Type of Support: Junior Faculty Award

Project Title: Specificity of insulin/IGF-1 signaling in *C. elegans*

Robert V. Farese, Jr., MD

The J. David Gladstone Institutes
San Francisco, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Does fat accumulation in skeletal muscle cause insulin resistance?

Robert V. Farese, Jr., MD

The J. David Gladstone Institutes
San Francisco, CA

Type of Support: Research Award

Project Title: DGAT1 and the central nervous system

Lei Feng, MD, PhD

University of California, Los Angeles
Los Angeles, CA

Type of Support: Henry Becton Innovation Award

Project Title: Association of venous endothelial inflammation with hyperglycemia and vascular complications in type 2 diabetic patients – endothelial biopsy and real-time PCR analysis

Assiamira Ferrara, MD, PhD

Kaiser Permanente Division of Research
Oakland, CA

Type of Support: Clinical Research Award

Project Title: Is past use of hormonal contraceptives associated with increased risk of gestational diabetes mellitus?

Barry M. Forman, MD, PhD

City of Hope, Beckman Research Institute
Duarte, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Nuclear receptors and the pathology of insulin resistance

David Gregory Gardner, MD

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: Cardiac lipotoxicity: The role of myocyte steatosis

Michael German, MD

University of California, San Francisco
San Francisco, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Pancreatic islet development and diabetes

Michael German, MD

University of California, San Francisco
San Francisco, CA

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Transformation of progenitor cells to beta cells

Ira D. Goldfine, MD

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: Analysis of the insulin receptor by STEM

**Nestor F. Gonzalez-Cadauid, PhD**

Harbor-UCLA Research and Education Institute
Torrance, CA

Type of Support: Research Award

Project Title: Erectile dysfunction and vascular fibrosis in diabetes

Michael Isaac Goran, PhD

University of Southern California
Los Angeles, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mentor-based postdoctoral training in pediatric obesity and type 2 diabetes

Erica Pauline Gunderson, PhD

Kaiser Permanente
Oakland, CA

Type of Support: Research Award

Project Title: Prospective study of childbearing and correlates of insulin resistance in nondiabetic women

Anne Peters Harmel, MD

University of Southern California
Los Angeles, CA

Type of Support: Clinical Research Award

Project Title: What are the factors associated with sustained global risk reduction in an underserved Latino population treated in a diabetes disease management program?

Peter J. Havel, PhD

University of California, Davis
Davis, CA

Type of Support: Research Award

Project Title: Role of adiponectin in the onset and progression of obesity-induced insulin resistance

Matthias Hebrok, PhD

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: The role of Wnt/Hedgehog signaling in beta-cell development and function

Jeremy Josef Heit, BA

Stanford University
Stanford, CA

Type of Support: Medical Scholars Award

Project Title: Elucidating the role of Calcineurin and NFAT in maintaining beta-cell functions

Robert Roy Henry, MD

Veterans Medical Research Foundation
San Diego, CA

Type of Support: Distinguished Clinical Scientist Award

Project Title: Mechanisms of insulin resistance in metabolic syndrome and type 2 diabetes

Robert Roy Henry, MD

VA San Diego Healthcare System
San Diego, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Translational research of insulin resistance, obesity, and type 2 diabetes

Isabel Rey Huey Hsu, MA

University of Southern California
Los Angeles, CA

Type of Support: Physician Scientist Training Award

Project Title: Role of central nervous system control of oscillatory lipolysis in the development of insulin resistance

**Wen-Chi Hsueh, PhD**

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: Obesity and the leptin-melanocortin signaling pathway:
A candidate gene study

Lois Jovanovic, MD

Sansum Diabetes Research Institute
Santa Barbara, CA

Type of Support: Clinical Research Award

Project Title: Pregnancy as a model for rejuvenation of
pancreatic beta-cell function

Michael Karin, PhD

University of California, San Diego
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular and cellular mechanisms through which IKKbeta
is involved in insulin resistance and type 2 diabetes

Andrew J. Karter, PhD

Kaiser Permanente Division of Research
Oakland, CA

Type of Support: Clinical Research Award

Project Title: Congestive heart failure and pioglitazone use

Jean Marie Lawrence, ScD

Kaiser Foundation Research Institute
Pasadena, CA

Type of Support: Clinical Research Award

Project Title: Epidemiology of gestational diabetes mellitus in
a multi-ethnic population

Chih-Pin Liu, PhD

City of Hope, Beckman Research Institute
Duarte, CA

Type of Support: Research Award

Project Title: Induction of immune tolerance to pancreatic islets

Hugh O. McDevitt, MD

Stanford University
Stanford, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Apoptosis in the pathogenesis of type 1 diabetes

Samir Mitragotri, PhD

University of California, Santa Barbara
Santa Barbara, CA

Type of Support: Research Award

Project Title: Oral insulin delivery by intestinal patches

Marc Montminy, MD, PhD

Salk Institute for Biological Studies
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Role of CREB activity in carbohydrate and lipid metabolism

Marc Montminy, MD, PhD

Salk Institute for Biological Studies
La Jolla, CA

Type of Support: Research Award

Project Title: The role of the coactivator PGC-1 in the development of
hepatic insulin resistance

Rama Natarajan, PhD

City of Hope, Beckman Research Institute
Duarte, CA

Type of Support: Research Award

Project Title: Signal transduction under diabetic conditions

Michael Oldstone, MD

The Scripps Research Institute
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Understanding the molecular basis of type 1
insulin-dependent diabetes

**Jerrold M. Olefsky, MD**

University of California, San Diego
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Beta-arrestin and insulin-induced proteosomal degradation of IRS-1 – A novel mechanism for insulin resistance

Funded by: *The Estate of George Blair*

Miklos Peterfy, PhD

University of California, Los Angeles
Los Angeles, CA

Type of Support: Research Award

Project Title: Positional cloning of a diabetes-susceptibility locus in a mouse model of type 2 diabetes

David J. Pettitt, MD

Sansum Medical Research Institute
Santa Barbara, CA

Type of Support: Clinical Research Award

Project Title: School-based study of glucose intolerance and polycystic ovary syndrome

Robert Leslie Raffai, PhD

University of California, San Francisco
San Francisco, CA

Type of Support: Junior Faculty Award

Project Title: Investigating the role of diabetic hyperglycemia in promoting the development and preventing the regression of peripheral atherosclerosis in a novel mouse model of peripheral arterial disease

Maike Sander, MD

University of California, Irvine
Irvine, CA

Type of Support: Research Award

Project Title: The role of Wnt signaling in pancreatic development and islet cell function

Nora Sarvetnick, PhD

The Scripps Research Institute
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Regulation of autoimmunity

Andreas Stahl, PhD

Palo Alto Medical Foundation
Palo Alto, CA

Type of Support: Career Development Award

Project Title: Control of fatty acid uptake in adipocytes and skeletal muscle cells by fatty acid transport proteins

Alfonso Tramontano, PhD

University of California, Davis
Davis, CA

Type of Support: Research Award

Project Title: Immunotherapy for diabetic complications of advanced glycation

Christian Vaisse, MD, PhD

University of California, San Francisco
San Francisco, CA

Type of Support: Research Award

Project Title: A novel pathogenic mechanism for human obesity associated melanocortin-4 receptor mutations

Matthias G. Von Herrath, MD

La Jolla Institute of Allergy and Immunology
La Jolla, CA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Cellular mechanisms of cytotoxic insulin-reactive T cells in different murine models of type 1 diabetes

Richard M. Watanabe, PhD

University of Southern California
Los Angeles, CA

Type of Support: Research Award

Project Title: Pharmacogenetics of diabetes prevention



Our Scientists Speak...



"I have been involved personally with the local ADA office in Cleveland, as well as on a national level, and believe that the American Diabetes Association has an excellent combination of input from people in families living with diabetes as well as the commitment from the researchers aiming to make life with diabetes more livable."

Patrick M. Catalano, MD — Case Western Reserve University at MetroHealth Medical Center, Cleveland, Ohio



"ADA donor support is essential for future safe and effective patient care, especially in view of the fact that the National Institutes of Health budget is being cut, making funding sources like the ADA greatly needed in order to study patient-based research, particularly in diabetes, which shows no signs of going away."

M. Elizabeth Hartnett, MD — University of North Carolina, Chapel Hill, North Carolina



"The ADA gave me my first opportunity to develop into a scientific researcher, and I continue to feel part of their team. Over the past 20 years, I have received many types of research awards from the ADA...These awards allow me to attract young investigators with substantial promise who, with guidance and direction, will hopefully lead the next generation of diabetes discovery."

Robert R. Henry, MD — University of California and San Diego VA Healthcare System, San Diego, California



"Our ADA-funded study proposes to answer some of the questions about hyperglycemia (high blood glucose) in pregnancy and how it may affect the development of obesity and type 2 diabetes in the offspring of women with gestational diabetes, particularly, among minorities...We are studying whether even moderately high blood glucose levels...increase the risk of obesity and type 2 diabetes in their offspring."

Teresa Hillier, MD, MS — Kaiser Permanente's Center for Health Research Northwest, Portland, Oregon, and Honolulu, Hawaii



**COLORADO****Raymond Oliver Estacio, MD**

Denver Health
Denver, CO

Type of Support: Clinical Research Award

Project Title: Nurse administered telephonic cholesterol outcomes study

Pamela R. Fain, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Research Award

Project Title: Islet-cell autoimmunity: Are dizygotic twins the same as siblings?

Tasha E. Fingerlin, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Junior Faculty Award

Project Title: Genes in the IKKbeta/NF-kappaB pathway and insulin resistance

Ronald G. Gill, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Immunobiology of pancreatic islet transplantation

Kathryn Haskins, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Research Award

Project Title: Encapsulation of islets in PEG hydrogels

John C. Hutton, PhD

University of Colorado Health Sciences Center
Aurora, CO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Islet G6Pase-related protein: A novel beta cell specific target for T-cell mediated autoimmunity in type 1 diabetes

John C. Hutton, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Research Award

Project Title: Islet G6Pase-related protein: A novel beta cell specific target for T-cell mediated autoimmunity in type 1 diabetes

Jan Jensen, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Career Development Award

Project Title: Morphogenetic control of beta cell specification

Jill M. Norris, MPH, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Research Award

Project Title: Effects of vitamin D genes on measures of insulin secretion, insulin sensitivity and adiposity

Subbiah Pugazhenti, PhD

University of Colorado Health Sciences Center
Aurora, CO

Type of Support: Junior Faculty Award

Project Title: Molecular mechanism of beta cell apoptosis in NOD mice

Judith G. Regensteiner, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Clinical Research Award

Project Title: Exercise and type 2 diabetes: Gender and endothelial function

Lori Sussel, PhD

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Research Award

Project Title: Characterization of ghrelin cells in the pancreatic islet

**David H. Wagner, PhD**

University of Colorado Health Sciences Center
Denver, CO

Type of Support: Junior Faculty Award

Project Title: Resistance of auto-aggressive T cells to induced cell death in IDDM

CONNECTICUT**Jonathan S. Bogan, MD**

Yale University
New Haven, CT

Type of Support: Research Award

Project Title: Regulation of glucose transporter trafficking

Sonia Caprio, MD

Yale University
New Haven, CT

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Pathophysiology of insulin resistance in obese youth with pre-diabetes

Valerie B. Duffy, PhD, RD

University of Connecticut
Storrs, CT

Type of Support: ADA Healthy Food Choices Research Award

Project Title: The Captain 5 A Day Program: Improving dietary quality and physical activity in preschoolers

Funded by: ARAMARK Charitable Fund

Richard A. Flavell, PhD

Yale University
New Haven, CT

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanism of protection of autoimmune diabetes

Richard A. Flavell, PhD

Yale University
New Haven, CT

Type of Support: Research Award

Project Title: Prevention of type 1 diabetes by immunologic tolerance mediated by TGF beta

Ewan Craig McNay, PhD

Yale University
New Haven, CT

Type of Support: Junior Faculty Award

Project Title: Role of insulin in cognition and in mediating the cognitive effects of hypoglycemia

Robert S. Sherwin, MD

Yale University
New Haven, CT

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: The role of the brain in diabetes and blocking specific autoimmunity in type 1 diabetes

Gerald I. Shulman, MD, PhD

Yale University
New Haven, CT

Type of Support: Distinguished Clinical Scientist Award

Project Title: Application and development of novel magnetic resonance spectroscopic techniques for the study of liver, muscle and brain metabolism in patients with type 1 and type 2 diabetes

Julie Ann Wagner, PhD

University of Connecticut Health Sciences Center
Farmington, CT

Type of Support: Clinical Research Award

Project Title: Relationships among type 2 diabetes, history of depression, and coronary heart disease risk in postmenopausal women

**Li Wen, MD, PhD**

Yale University
New Haven, CT

Type of Support: Research Award

Project Title: The role of toll in autoimmune diabetes

Catherine Weikart Yeckel, PhD

The John B. Pierce Laboratory, Inc.
New Haven, CT

Type of Support: Junior Faculty Award

Project Title: Mild cold exposure: A non-pharmacological approach to improve insulin sensitivity in obese youth

DISTRICT OF COLUMBIA**Christine Maric, PhD**

Georgetown University
Washington, DC

Type of Support: Research Award

Project Title: Role of estrogen in diabetic renal disease

FLORIDA**Elizabeth Fenjves, PhD**

University of Miami
Miami, FL

Type of Support: Research Award

Project Title: Genetic engineering of pancreatic islets using a novel lentiviral vector

Funded by: *David Block & The Emily Rosebud Diabetes Foundation*

Orlando Gomez-Marin, MSc, PhD

University of Miami
Miami, FL

Type of Support: Clinical Research Award

Project Title: Epidemiology of diabetes among Haitian Americans

Carrie Haskell-Luevano, PhD

University of Florida
Gainesville, FL

Type of Support: Research Award

Project Title: Voluntary exercise identifies new gene candidates for the prevention of type 2 diabetes

Luca Inverardi, MD

University of Miami
Miami, FL

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Culture, characterization and differentiation of fetal pancreatic progenitor cells

Amanda Sobel Lochrie, PhD

Nemours Children's Clinic
Jacksonville, FL

Type of Support: Junior Faculty Award

Project Title: A family based intervention to reduce the risk of type 2 diabetes in children

Ricardo Luis Pastori, PhD

University of Miami
Miami, FL

Type of Support: Innovation Award

Project Title: Micro RNA profiling of human pancreatic islet cells

Changqing Xia, MD, PhD

University of Florida
Gainesville, FL

Type of Support: Junior Faculty Award

Project Title: Development of tolerogenic dendritic cells: Application of tolerogenic dendritic cells in prevention and reversal of type 1 diabetes in NOD mice

**GEORGIA****Catherine S. Barnes, PhD**

Emory University
Atlanta, GA

Type of Support: Clinical Research Award

Project Title: Patient empowerment to improve diabetes care (PEIDiC)

Funded by: *Order of the Amaranth Diabetes Foundation*

Adviye Ergul, MD, PhD

Medical College of Georgia
Augusta, GA

Type of Support: Research Award

Project Title: Endothelin-1 and vascular remodeling in diabetes

Jennifer L. Gooch, PhD

Emory University
Atlanta, GA

Type of Support: Junior Faculty Award

Project Title: Role of calcineurin in diabetic nephropathy

Gregory Ing Liou, PhD

Medical College of Georgia
Augusta, GA

Type of Support: Research Award

Project Title: Therapeutic effects of endogenous cannabinoids in diabetic retinopathy

Qing-Sheng Mi, MD, PhD

Medical College of Georgia
Augusta, GA

Type of Support: Junior Faculty Award

Project Title: Fine mapping and functional dissection of mouse diabetes susceptibility Idd4.1 locus

Andrew Muir, MD

Medical College of Georgia
Augusta, GA

Type of Support: Clinical Research Award

Project Title: Computer-assisted training (CAT) in self management education of children with newly diagnosed type 1 diabetes and their families

Mark Ransford Rigby, MD, PhD

Emory University School of Medicine
Atlanta, GA

Type of Support: Junior Faculty Award

Project Title: The role of anergy and regulatory T cells in costimulation blockade-induced tolerance of autoantigen-specific diabetogenic T cells

Guillermo E. Umpierrez, MD

Emory University
Atlanta, GA

Type of Support: Clinical Research Award

Project Title: Mechanisms underlying beta-cell failure in obese African Americans with history of hyperglycemic crises

Funded by: *Dr. Victor Silverman*

Cong-Yi Wang, MD

Medical College of Georgia
Augusta, GA

Type of Support: Junior Faculty Award

Project Title: Role of TAB2 and SUMO4 in type 1 diabetes pathogenesis

Xiaonan H. Wang, MD

Emory University
Atlanta, GA

Type of Support: Junior Faculty Award

Project Title: The mechanism and prevention of muscle wasting from diabetes

**ILLINOIS****Daniel Battle, MD**

Northwestern University
Chicago, IL

Type of Support: Research Award

Project Title: Renal ACE and ACE2 in diabetic mice

Matthew J. Brady, PhD

University of Chicago
Chicago, IL

Type of Support: Career Development Award

Project Title: The role of PTG in the regulation of glycogen synthesis by insulin

Hua (Linda) Cai, MD, PhD

University of Chicago
Chicago, IL

Type of Support: Research Award

Project Title: Uncoupling of eNOS in diabetes: Mechanisms, consequences, and therapeutics

Nancy J. Cox, PhD

University of Chicago
Chicago, IL

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Training in methods development and genetic analysis for type 1 and type 2 diabetes

Farhad R. Danesh, MD

Northwestern University
Chicago, IL

Type of Support: Research Award

Project Title: Statins: Mechanism of action and effects in diabetic nephropathy

Marc R. Garfinkel, MD

University of Chicago
Chicago, IL

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Study of a novel method of islet encapsulation: Inverted selective withdrawal

Funded by: *In Memory of William Parker*

Charles William Heilig, MD

University of Chicago
Chicago, IL

Type of Support: Research Award

Project Title: Identification of chronic mechanisms maintaining mesangial cell (MC) extracellular matrix (ECM) production in response to GLUT1 vs. high glucose

Yan Chun Li, PhD

University of Chicago
Chicago, IL

Type of Support: Research Award

Project Title: Renal protective role of vitamin D in diabetic nephropathy

Funded by: *Estate of Ruth E. Lebeau*

Xiubei Liao, PhD

University of Illinois at Chicago
Chicago, IL

Type of Support: Research Award

Project Title: NMR study of HNF-6 and its protein-protein and protein-DNA complexes

H. Clive Palfrey, PhD

University of Chicago
Chicago, IL

Type of Support: Research Award

Project Title: Role of EF-2 phosphorylation and protein phosphatase-2A in glucose effects on protein synthesis in beta cells

**Mary E. Pauza, PhD**

Southern Illinois University
Springfield, IL

Type of Support: Junior Faculty Award

Project Title: Controlling autoreactive T cells with Ly49A

Louis Philipson, MD, PhD

University of Chicago
Chicago, IL

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Biophysical studies of the pancreatic beta cell

Kristine Marie Thompson, BA

Rosalind Franklin University of Medicine and Science
North Chicago, IL

Type of Support: Medical Scholars Award

Project Title: Granulocyte-colony stimulating factor gene therapy for the treatment of healing-impaired diabetic wounds

Ji-Won Yoon, PhD

Rosalind Franklin University of Medicine and Science
North Chicago, IL

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Replacement of beta cells for the treatment of autoimmune type 1 diabetes

INDIANA**Robert V. Considine, PhD**

Indiana University
Indianapolis, IN

Type of Support: Research Award

Project Title: Hepatocyte growth factor: A novel adipocyte factor elevated in human obesity

Jeffrey S. Elmendorf, PhD

Indiana University
Indianapolis, IN

Type of Support: Research Award

Project Title: Membrane and cytoskeletal abnormalities in insulin resistance

Kieren James Mather, MD

Indiana University
Indianapolis, IN

Type of Support: Career Development Award

Project Title: Dual role of insulin in the regulation of endothelin action in vivo in humans

Anupama Mohanram, MD

Indiana University
Indianapolis, IN

Type of Support: Junior Faculty Award

Project Title: Anemia and progression of diabetic nephropathy

Helmut Otto Steinberg, MD

Indiana University
Bloomington, IN

Type of Support: Clinical Research Award

Project Title: Insulin resistance, ADMA, and vascular function

Debbie C. Thurmond, PhD

Indiana University
Indianapolis, IN

Type of Support: Career Development Award

Project Title: Regulation of glucose-stimulated insulin secretion by the actin cytoskeleton and SNARE proteins

Xin Zhang, PhD

Indiana University
Indianapolis, IN

Type of Support: Research Award

Project Title: Transcriptional regulation of Pax6 during pancreatic development

**IOWA****Kathryn Griffin Lamping, PhD**

University of Iowa
Iowa City, IA

Type of Support: Research Award

Project Title: Gender-dependent vascular dysfunction in type 2 diabetes

Kevin L. Schalinske, PhD

Iowa State University
Ames, IA

Type of Support: Research Award

Project Title: Perturbation of methyl group metabolism by diabetes and retinoid compounds

Funded by: *Estate of Robert E. Burton*

Gina C. Schatteman, PhD

University of Iowa
Iowa City, IA

Type of Support: Research Award

Project Title: Bone marrow-derived cell based therapy in type 2 diabetes

Mark A. Yorek, PhD

University of Iowa
Iowa City, IA

Type of Support: Research Award

Project Title: Effect of angiotensin converting enzyme (ACE) inhibitor and/or angiotensin II receptor antagonist (ARB) on diabetic neuropathy

KANSAS**Rick T. Dobrowsky, PhD**

The University of Kansas
Lawrence, KS

Type of Support: Research Award

Project Title: Schwann cell signaling in diabetic neuropathy

Richard W. McCallum, MD

University of Kansas Medical Center
Kansas City, KS

Type of Support: Clinical Research Award

Project Title: Multi-channel gastric electrical stimulation for the treatment of diabetic gastroparesis

Silvia Mora, PhD

Kansas State University
Manhattan, KS

Type of Support: Junior Faculty Award

Project Title: Regulation of ACRP30 traffic and secretion in adipocytes

KENTUCKY**Dennis C. Bruemmer, MD**

University of Kentucky
Lexington, KY

Type of Support: Research Award

Project Title: Regulation of telomerase activation in diabetic vascular complications by PPARgamma

Lu Cai, MD, PhD

University of Louisville
Louisville, KY

Type of Support: Career Development Award

Project Title: Mechanisms for metallothionin prevention of diabetes-induced nitrosative damage to the heart

Brian Scott Finlin, PhD

University of Kentucky
Lexington, KY

Type of Support: Junior Faculty Award

Project Title: Regulation of l-type calcium channels by the Rem2 GTPase in pancreatic beta cells

**Ming Cui Gong, MD, PhD**

University of Kentucky
Lexington, KY

Type of Support: Career Development Award

Project Title: Vascular smooth muscle hyperreactivity and type 2 diabetes-associated hypertension

Ye Qi Liu, MD, PhD

University of Louisville
Louisville, KY

Type of Support: Junior Faculty Award

Project Title: A pyruvate carboxylase transgene prevents type 2 diabetes mellitus

Sabire Ozcan, PhD

University of Kentucky
Lexington, KY

Type of Support: Career Development Award

Project Title: Role of histone deacetylation and protein phosphatases in insulin gene expression

Jianhua Shao, PhD

University of Kentucky
Lexington, KY

Type of Support: Junior Faculty Award

Project Title: Regulation of adiponectin expression by lipids and C/EBPalpha

Lisa R. Tannock, MD

University of Kentucky
Lexington, KY

Type of Support: Junior Faculty Award

Project Title: Lipoprotein retention in diabetic complications

Esmat Shirwan Yolcu, PhD

University of Louisville
Louisville, KY

Type of Support: Junior Faculty Award

Project Title: A novel approach to generate mixed hematopoietic chimerism for the treatment of type 1 diabetes

LOUISIANA**Andrew Alistair Butler, PhD**

Pennington Biomedical Research Center
Baton Rouge, LA

Type of Support: Junior Faculty Award

Project Title: Regulation of liver fatty acid metabolism by the melanocortin-4 receptor

Stuart A. Chalew, MD

Children's Hospital, New Orleans
New Orleans, LA

Type of Support: Clinical Research Award

Project Title: Mechanisms of biological variation in hemoglobin glycation

Thomas W. Gettys, PhD

Pennington Biomedical Research Center
Baton Rouge, LA

Type of Support: Research Award

Project Title: Signaling pathways linking central leptin receptors to peripheral regulation of gene expression in adipose tissue

Christopher G. Kevil, PhD

Louisiana State University Health Sciences Center, Shreveport
Shreveport, LA

Type of Support: Junior Faculty Award

Project Title: Beta 2 integrin regulation of autoimmune diabetes

Ming Li, PhD

Tulane University Health Sciences Center
New Orleans, LA

Type of Support: Research Award

Project Title: [Ca²⁺] I-dependent L-type Ca²⁺ channel translocation in insulin secreting cells

Irina G. Obrosova, PhD

Pennington Biomedical Research Center
Baton Rouge, LA

Type of Support: Research Award

Project Title: Nitrosative stress and early diabetic neuropathy

**Donald K. Scott, PhD**

Louisiana State University Health Sciences Center, New Orleans
New Orleans, LA

Type of Support: Research Award

Project Title: The role of c-Myc in glucose-regulated gene expression in pancreatic beta cells

Jacqueline M. Stephens, PhD

Louisiana State University
Baton Rouge, LA

Type of Support: Research Award

Project Title: SUMO modification of PPARgamma proteins in adipocytes

Jianping Ye, MD

Pennington Biomedical Research Center
Baton Rouge, LA

Type of Support: Research Award

Project Title: Regulation of PPARgamma transactivation by TNF-alpha

Aamir R. Zuberi, PhD

Pennington Biomedical Research Center
Baton Rouge, LA

Type of Support: Research Award

Project Title: Genetic variation underlying murine insulin regulation: Characterization of a novel polymorphic candidate gene, Zfp106

MAINE**Amy J. Davidoff, PhD**

University of New England
Biddeford, ME

Type of Support: Research Award

Project Title: Link between myocardial insulin resistance and abnormal excitation-contraction coupling

Edward H. Leiter, PhD

The Jackson Laboratory
Bar Harbor, ME

Type of Support: Research Award

Project Title: Leptin and autoimmune diabetes in NOD mice

Edward H. Leiter, PhD

The Jackson Laboratory
Bar Harbor, ME

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: New mouse models for diabetes research

MARYLAND**Joel Gittelsohn, PhD**

Johns Hopkins University
Baltimore, MD

Type of Support: Clinical Research Award

Project Title: A pilot integrated, multi-institutional, community-based program to modify diabetes risk factors in native communities

Marc Kenneth Halushka, MD, PhD

Johns Hopkins University
Baltimore, MD

Type of Support: Junior Faculty Award

Project Title: High throughput quantitative protein expression in diabetic vasculature: A systematic tissue microarray analysis using multiple organ systems to investigate receptors of advanced glycation end products (AGEs)

John W. Harmon, MD

Johns Hopkins University
Baltimore, MD

Type of Support: Research Award

Project Title: A gene therapy system with potential to heal diabetic foot ulcers – the promise of HIF-1 alpha

David Mears, PhD

Uniformed Services University of the Health Sciences
Bethesda, MD

Type of Support: Research Award

Project Title: Cholinergic control of insulin secretion in mouse and human pancreatic beta cells

**Wanda Kay Nicholson, MD, MPH**

Johns Hopkins University
Baltimore, MD

Type of Support: Clinical Research Award

Project Title: Interventions to promote weight loss among postpartum African American women

Pere Puigserver, PhD

Johns Hopkins University
Baltimore, MD

Type of Support: Career Development Award

Project Title: Transcriptional control of hepatic glucose production through acetylation of PGC-1ALPHA

Michael J. Quon, MD, PhD

National Institutes of Health
Bethesda, MD

Type of Support: Research Award

Project Title: Cross-talk between inflammatory and metabolic signaling pathways involving serine phosphorylation of IRS-1

Gregg Leonard Semenza, MD, PhD

Johns Hopkins University
Baltimore, MD

Type of Support: Research Award

Project Title: Interaction of diabetes, aging, and HIF-1 deficiency in peripheral vascular disease

Alan R. Shuldiner, MD

University of Maryland, Baltimore
Baltimore, MD

Type of Support: Research Award

Project Title: Linkage disequilibrium mapping of a type 2 diabetes susceptibility gene on chromosome 14q11-q13 in the Amish

Alan R. Shuldiner, MD

University of Maryland, Baltimore
Baltimore, MD

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular genetics of type 2 diabetes and related disorders

Carole Sztalryd, PhD

University of Maryland, Baltimore
Baltimore, MD

Type of Support: Career Development Award

Project Title: Perilipin regulation of hormone sensitive lipase

MASSACHUSETTS**David Altshuler, MD, PhD**

Massachusetts General Hospital
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: Human genetics of obesity

Funded by: *The Richard & Susan Smith Family Foundation*

Joshua A. Beckman, MD

Brigham and Women's Hospital
Boston, MA

Type of Support: Career Development Award

Project Title: Mechanisms of endothelial dysfunction in insulin resistance

Martin Beinborn, MD

New England Medical Center Hospitals
Boston, MA

Type of Support: Research Award

Project Title: Use of activated GLP-1 receptors to improve islet transplantation

Laura E. Benjamin, PhD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Research Award

Project Title: RhoB as a therapeutic target for diabetic microvascular complications

**Christophe Benoist, MD, PhD**

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: A phosphoproteomic analysis of a defect in central tolerance induction in NOD Mice

Funded by: *Takeda Pharmaceuticals North America, Inc.*

Christophe Benoist, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Postdoctoral Fellowship Award

Project Title: Gene expression profiling of autoimmune inflammation

Christian Bjorbaek, PhD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Hypothalamic leptin and insulin receptor signaling and neuropeptide release

Funded by: *The Richard & Susan Smith Family Foundation*

Barry Braun, PhD

University of Massachusetts
Amherst, MA

Type of Support: Junior Faculty Award

Project Title: Interactions between exercise and metformin in pre-diabetes: Glucose metabolism at the cellular, whole-body, and clinically relevant levels

Franklin H. Bunn, MD

Brigham and Women's Hospital
Boston, MA

Type of Support: Research Award

Project Title: Role of Ncb5or in regulation of insulin production

Anthony Carruthers, PhD

University of Massachusetts Medical School
Worcester, MA

Type of Support: Innovation Award

Project Title: Can we prevent HIV-protease inhibitor-induced insulin resistance by understanding GLUT4 inhibition?

Funded by: *Estate of Gail Patrick*

Mark J. Daly, MD, PhD

Massachusetts General Hospital
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients

Funded by: *The Richard & Susan Smith Family Foundation*

Alessandro Doria, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Search for type 2 diabetes genes through family studies

Keyong Du, PhD

New England Medical Center
Boston, MA

Type of Support: Thomas R. Lee Career Development Award

Project Title: Aclip, a novel Akt interacting protein that regulates glucose transport and Akt compartmentalized activation by insulin

Funded by: *Estate of Thomas R. Lee*

Jeffrey L. Ecker, MD

Massachusetts General Hospital
Boston, MA

Type of Support: Clinical Research Award

Project Title: Early predictors of gestational diabetes and associated morbidity

**Allison B. Goldfine, MD**

Joslin Diabetes Center
Boston, MA

Type of Support: Career Development Award

Project Title: Insulin regulation of beta cell function in humans in vivo

Todd R. Golub, MD

Dana-Farber Cancer Institute
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: Profiling pathways operative in human diabetes using DNA microarrays

Funded by: *The Richard & Susan Smith Family Foundation*

Laurie J. Goodyear, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanisms of exercise-regulated glucose transport in skeletal muscle

Francine Grodstein, ScD

Brigham and Women's Hospital
Boston, MA

Type of Support: Clinical Research Award

Project Title: Type 2 diabetes and cognitive decline in women

Frances Josephine Hayes, MD

Massachusetts General Hospital
Boston, MA

Type of Support: Career Development Award

Project Title: Modulation of insulin action by testosterone in men

Alan Herbert, PhD

Boston University
Boston, MA

Type of Support: Research Award

Project Title: Characterization of a genetic risk factor for type 2 diabetes mellitus on chromosome 10

Joel Hirschhorn, MD, PhD

Children's Hospital Boston
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: Human genetics of obesity

Funded by: *The Richard & Susan Smith Family Foundation*

Richard Ho, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Junior Faculty Award

Project Title: Nuclear factor kappa-B regulation of gene expression in contracting skeletal muscle

Anthony N. Hollenberg, MD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Research Award

Project Title: Transcriptional regulation of target genes in vivo by leptin

Anthony N. Hollenberg, MD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Transcriptional regulation of arcuate nucleus function

Funded by: *The Richard & Susan Smith Family Foundation*

**Edward S. Horton, MD**

Joslin Diabetes Center
Boston, MA

Type of Support: A1C Project

Project Title: WHAT MBG Study (A1C Project)

Gokhan S. Hotamisligil, MD, PhD

Harvard University
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Inflammatory mechanisms underlying insulin resistance and associated pathologies

Gokhan S. Hotamisligil, MD, PhD

Harvard University
Boston, MA

Type of Support: Research Award

Project Title: Role of fatty acid binding proteins in type 2 diabetes

John Iacomini, PhD

Brigham and Women's Hospital
Boston, MA

Type of Support: Research Award

Project Title: Overcoming type 1 diabetes by gene therapy

Mukesh K. Jain, MD

Brigham and Women's Hospital
Boston, MA

Type of Support: Junior Faculty Award

Project Title: KLF15 as a regulator of GLUT4

Zhen Y. Jiang, MD, PhD

University of Massachusetts Medical School
Worcester, MA

Type of Support: Junior Faculty Award

Project Title: Using small interfering RNA (siRNA)-induced gene silencing to analyze insulin signaling on Akt pathway and its role in glucose transport in insulin-sensitive cells

Barbara B. Kahn, MD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanisms of insulin and leptin action and the pathogenesis of obesity and type 2 diabetes

C. Ronald Kahn, MD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: Insulin action, insulin resistance, adipogenesis and diabetes

Funded by: *Takeda Pharmaceuticals North America, Inc.*

C. Ronald Kahn, MD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Fellowship training in insulin action, insulin resistance and pathogenesis of type 2 diabetes

Konstantin V. Kandror, PhD

Boston University
Boston, MA

Type of Support: Innovation Award

Project Title: Glut4-vesicles in the brain

Young-Bum Kim, PhD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Role of hypothalamic Rho-kinase in the regulation of food intake and glucose homeostasis

Funded by: *The Richard & Susan Smith Family Foundation*

**George L. King, MD**

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: The role of protein kinase C activation and diabetic retinopathy

George L. King, MD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Biochemical pathogenesis and treatment for diabetic vascular complications

Andrzej S. Krolewski, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Role of cytokines and chemokines in renal function decline in diabetes

Rohit N. Kulkarni, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: Role of insulin/IGF-1 signaling in modulation of alpha-cell function and growth

Funded by: *Stanley and Cathy Bernstein*

Colin Leech, PhD

Massachusetts General Hospital
Boston, MA

Type of Support: Research Award

Project Title: Regulation of nucleotide binding to ATP-sensitive potassium channels

Harvey F. Lodish, PhD

Whitehead Institute for Biomedical Research
Cambridge, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Metabolic control by novel ACRP30/adiponectine-like proteins

Mary R. Loeken, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: Neural tube effects caused by diabetic pregnancy: Roles of insufficient Pax3 gene expression and p53-dependent apoptosis

Brendan Daniel Manning, PhD

Harvard University
Boston, MA

Type of Support: Junior Faculty Award

Project Title: The role of AKT-TSC-MTOR signaling in the physiological response to insulin

Christos Socrates Mantzoros, MD, ScD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Clinical Research Award

Project Title: A combination of pioglitazone and leptin as treatment for the HMRT-induced metabolic syndrome: A randomized, double-blind, placebo-controlled clinical trial

Diane J. Mathis, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: The role of NK cells in early-onset type 1 diabetes
Funded by: *Takeda Pharmaceuticals North America, Inc.*

**Diane J. Mathis, PhD**

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Establishment of a sensitive high-throughput system for detecting antigen-specific T cells

James B. Meigs, MD

Massachusetts General Hospital
Boston, MA

Type of Support: Career Development Award

Project Title: Insulin resistance, endothelial dysfunction, and risk for type 2 diabetes

David Michael Miller, BA

University of Massachusetts Medical School
Worcester, MA

Type of Support: Physician Scientist Training Award

Project Title: Umbilical cord blood stem cells as therapy for diabetes mellitus

Funded by: *Ann Juster*

Vamsi K. Mootha, MD

Massachusetts General Hospital
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: Profiling pathways operative in human diabetes using DNA microarrays

Funded by: *The Richard & Susan Smith Family Foundation*

John Peter Mordes, MD

University of Massachusetts Medical School
Worcester, MA

Type of Support: Research Award

Project Title: Genetics of virus-induced autoimmunity in BB rats

Barbara Susanne Nikolajczyk, PhD

Boston University Medical Center
Boston, MA

Type of Support: Research Award

Project Title: Transcriptional regulation of interleukin 1 beta by a two-step mechanism

Vera Novak, MD, PhD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Clinical Research Award

Project Title: Cerebral vasoregulation in diabetes

Vera Novak, MD, PhD

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Clinical Research Award

Project Title: Cerebral perfusion and cognitive decline in type 2 diabetes

Martin S. Obin, PhD

Tufts University
Boston, MA

Type of Support: Research Award

Project Title: Adipocyte necrosis and adipose tissue inflammation: A new model of macrophage recruitment and activation in obesity

David Brian Rhoads, PhD

Massachusetts General Hospital
Boston, MA

Type of Support: Research Award

Project Title: Role of HNF1beta in beta cell development

Sayon Roy, PhD

Boston University
Boston, MA

Type of Support: Research Award

Project Title: Role of basement membrane thickening in the vascular complications of diabetes

**Neil B. Ruderman, MD**

Boston University
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Studies of AMP-activated protein kinase and its regulation

Gary Ruvkun, PhD

Massachusetts General Hospital
Boston, MA

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: Systematic identification of pathways contributing to diabetes and obesity in human patients: *C. elegans* RNAi Screen

Funded by: *The Richard & Susan Smith Family Foundation*

Arun J. Sharma, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: Cloning and characterization of a beta cell specific insulin gene transcription factor, A2.2

Steven E. Shoelson, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Inflammation in insulin resistance and type 2 diabetes: Pathogenic mediator and target for reversal

Steven E. Shoelson, MD, PhD

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: An inflammatory connection? Is NF- κ B activation at the root of obesity-induced insulin resistance and increased risk of macrovascular complications in type 2 diabetes?

Steven Richard Simon, MD

Harvard Medical School
Boston, MA

Type of Support: Junior Faculty Award

Project Title: Automated telephone diabetes management with speech recognition in a large HMO

Bruce Spiegelman, PhD

Dana-Farber Cancer Institute
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Genetic Analysis of PGC-1 α and PGC-1 β in the regulation of hepatic metabolism

Ravi I. Thadhani, MD

Massachusetts General Hospital
Boston, MA

Type of Support: Clinical Research Award

Project Title: Prospective evaluation of inflammatory cytokines and angiogenesis related growth factors in gestational diabetes mellitus

Melissa K. Thomas, MD, PhD

Massachusetts General Hospital
Boston, MA

Type of Support: Career Development Award

Project Title: Age-dependent regulation of PDX-1 in pancreatic beta cells

Mariano Ubeda-Minarro, MD

Massachusetts General Hospital
Boston, MA

Type of Support: A1C Project

Project Title: WHAT MBG Study (A1C Project)

Fumihiko Urano, MD

University of Massachusetts Medical School
Worcester, MA

Type of Support: Innovation Award

Project Title: Systems pathology in diabetes

Partially Funded by: *Lehman Brothers Foundation*

**Aristidis Veves, MD**

Beth Israel Deaconess Medical Center
Boston, MA

Type of Support: Clinical Research Award

Project Title: Micro and macrovascular abnormalities and diabetic foot ulceration

Yong-Xu Wang, PhD

University of Massachusetts Medical School
Worcester, MA

Type of Support: Junior Faculty Award

Project Title: Regulation of age-induced insulin resistance by PPAR δ and its co-regulators

Michael T. Watkins, MD

Massachusetts General Hospital
Boston, MA

Type of Support: Research Award

Project Title: Hindlimb ischemia-reperfusion in the diabetic mouse

Gordon Campbell Weir, MD

Joslin Diabetes Center
Boston, MA

Type of Support: Research Award

Project Title: Molecular mechanisms of human beta cell adaptation to diabetes

Morris F. White, PhD

Children's Hospital Boston
Boston, MA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: Identification of serine and threonine phosphorylation sites in insulin receptor substrates 1 (IRS-1) that regulate insulin signaling

Funded by: *Takeda Pharmaceuticals North America, Inc.*

Morris F. White, PhD

Children's Hospital Boston
Boston, MA

Type of Support: Research Award

Project Title: Regulation of insulin signaling by interleukin-6

Morris F. White, PhD

Children's Hospital Boston
Boston, MA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular mechanisms of stress-induced insulin resistance

Gordon Curtis Yaney, PhD

Boston Medical Center
Boston, MA

Type of Support: Junior Faculty Award

Project Title: Incretin action of fatty acids in glucose-stimulated insulin secretion

MICHIGAN**Peter Frederick Bodary, PhD**

University of Michigan
Detroit, MI

Type of Support: Junior Faculty Award

Project Title: Role of leptin receptor signaling pathways on arterial thrombosis and atherogenesis

Charles F. Burant, MD, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Manipulating TGF β signaling to isolate and characterize a replicating duct-derived adult islet precursor

Pedro Cortes, MD

Henry Ford Health Care System
Detroit, MI

Type of Support: Research Award

Project Title: Prevention of nephropathy in type 1 diabetes

**Taixing Cui, MD, PhD**

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: Role of nitrolinoleate in vascular lesion formation associated with diabetes

Eva L. Feldman, MD, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Research Award

Project Title: AGE formation and RAGE activation underlie metabolic memory in diabetic neuropathy

Funded by: *In Memory of Kenneth and Madge Marks*

Diane C. Fingar, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: Identity and function of raptor phosphorylation sites

Kimberlee A. Gretebeck, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: A tailored behavioral intervention to promote physical activity adoption and maintenance for older adults with type 2 diabetes

Jeffrey F. Horowitz, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: Fatty acid metabolism and insulin sensitivity:
The role of endurance exercise

Catherine Kim, MD, MPH

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: Health-system factors and the quality of diabetes care in managed care in women and men

Anjan Kowluru, PhD

Wayne State University
Detroit, MI

Type of Support: Research Award

Project Title: Novel regulation by Ras of IL-1-mediated beta cell dysfunction and demise

Todd Leff, PhD

Wayne State University
Detroit, MI

Type of Support: Research Award

Project Title: Molecular analysis of PPARgamma mutations associated with lipodystrophy

Ormond A. MacDougald, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanisms regulating adipogenesis

Ormond A. MacDougald, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Research Award

Project Title: C/EBPalpha phosphorylation and insulin sensitivity in adipocytes and adipose tissue

Robert George MacKenzie, PhD

Wayne State University
Detroit, MI

Type of Support: Research Award

Project Title: Creb regulation of gene expression in npy/agrp hypothalamic neurons

**Kenneth Maiese, MD**

Wayne State University
Detroit, MI

Type of Support: Research Award

Project Title: Novel therapeutic pathways of erythropoietin for diabetic neuronal injury

Ram K. Menon, MD

University of Michigan
Ann Arbor, MI

Type of Support: Innovation Award

Project Title: Direct actions of growth hormone on the glomerular podocyte: Implications for diabetic nephropathy

Richard M. Mortensen, MD, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Research Award

Project Title: Production and analysis of ES cell derived beta-islet cells

Martin G. Myers, Jr., MD, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Research Award

Project Title: AgRP and NPY in leptin receptor-dependent regulation of neuroendocrine function

Martin G. Myers, Jr., MD, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Pathways that inhibit leptin signaling

Sylvie Naar-King, PhD

Wayne State University
Detroit, MI

Type of Support: ADA Healthy Food Choices Research Award

Project Title: Adapting multisystemic therapy to improve food choices and health outcomes in obese African American youth

Funded by: ARAMARK Charitable Fund

Sylvie Naar-King, PhD

Wayne State University
Detroit, MI

Type of Support: Minority Undergraduate Internship Award

Project Title: Adapting multisystemic therapy to improve food choices and health outcomes in African American youth with primary obesity

John D. Piette, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Clinical Research Award

Project Title: Problems due to medication costs among people with diabetes

Liangyou Rui, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Career Development Award

Project Title: Role of a Ser/Thr kinase NIK in insulin resistance

Alan R. Saltiel, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular mechanisms of insulin action

Jessica Schwartz, PhD

University of Michigan
Ann Arbor, MI

Type of Support: Research Award

Project Title: Dissecting a genetic program for GH-induced insulin resistance

Assia C. Shisheva, PhD

Wayne State University
Detroit, MI

Type of Support: Research Award

Project Title: Intracellular phosphatidylinositol 5-phosphate pathway in insulin action on F-actin remodeling and GLUT4 dynamics

**Pukhrambam Lalit Singh, PhD**

Wayne State University
Detroit, MI

Type of Support: Career Development Award

Project Title: IGF-1 signaling and ECM gene expression in mesangial cells: A potential mechanism for diabetic glomerular sclerosis

Shi-Yi Zhou, PhD, MD

University of Michigan
Ann Arbor, MI

Type of Support: Junior Faculty Award

Project Title: Neuronal nitric oxide and selective nitrenergic neuropathy in diabetes

MINNESOTA**Pratima Bansal-Pakala, PhD**

University of Minnesota
Minneapolis, MN

Type of Support: Junior Faculty Award

Project Title: Regulation of type 1 diabetes by OX40/OX40L interactions

Funded by: *Estate of Hyman Horwitz*

Chella S. David, PhD

Mayo Clinic
Rochester, MN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Role of HLA class II genes in type 1 diabetes

Chella S. David, PhD

Mayo Clinic
Rochester, MN

Type of Support: Research Award

Project Title: Role of HLA molecules in predisposition, onset, severity, and progression of type 1 diabetes: Studies with humanized transgenic mice

Mary C. Gannon, PhD

Minneapolis VA Medical Center
Minneapolis, MN

Type of Support: Clinical Research Award

Project Title: The effect of a starch-limited diet on blood glucose in type 2 diabetes

ZengKui Guo, PhD

Mayo Clinic Rochester
Rochester, MN

Type of Support: Research Award

Project Title: Intramyocellular fat and insulin resistance

Zhiguang Guo, MD, PhD

University of Minnesota
Minneapolis, MN

Type of Support: Research Award

Project Title: Inducing tolerance to islet allograft by donor regulatory cells

Victor Manuel Montori, MD

Mayo Clinic
Rochester, MN

Type of Support: Novo Nordisk Clinical Research Award

Project Title: Insulin choice for patients with type 2 diabetes

Funded by: *Novo Nordisk, Inc.*

Erik J. Peterson, MD

University of Minnesota
Minneapolis, MN

Type of Support: Research Award

Project Title: The role of ADAP in autoimmune diabetes

Robert A. Rizza, MD

Mayo Clinic
Rochester, MN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Regulation of fasting and postprandial carbohydrate metabolism

**Steven A. Smith, MD**

Mayo Clinic
Rochester, MN

Type of Support: A1C Project

Project Title: WHAT MBG Study (A1C Project)

Lyn M. Steffen, PhD

University of Minnesota
Minneapolis, MN

Type of Support: Research Award

Project Title: Abdominal obesity and risk factors for the metabolic syndrome among Hispanic and non-Hispanic white women

Partially Funded by: *Abby R. Mauze Charitable Trust*

Roxanne Struthers, PhD

University of Minnesota
Minneapolis, MN

Type of Support: Clinical Research Award

Project Title: Adolescent and adult American Indian perspectives related to type 2 diabetes

MISSOURI**Ernesto Bernal-Mizrachi, MD**

Washington University in St. Louis
St. Louis, MO

Type of Support: Junior Faculty Award

Project Title: Role of Akt in the regulation of pancreatic beta cell mass and function

John A. Corbett, PhD

St. Louis University
St. Louis, MO

Type of Support: Research Award

Project Title: Diabetes induced by random mtDNA mutations in beta cells

Philip E. Cryer, MD

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Hypoglycemia in diabetes

Michael A. Harris, PhD

Washington University in St. Louis
St. Louis, MO

Type of Support: Clinical Research Award

Project Title: Home-based versus office-based family therapy for adolescents with poorly controlled diabetes

John Otto Holloszy, MD

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Exercise-induced increases in muscle glucose transport, insulin sensitivity and responsiveness

Jamal A. Ibdah, MD, PhD

University of Missouri-Columbia
Columbia, MO

Type of Support: Research Award

Project Title: Mitochondrial beta-oxidation and susceptibility to insulin resistance

Steven P. Marso, MD

Saint Luke's Hospital, Mid America Heart Institute
Kansas City, MO

Type of Support: Clinical Research Award

Project Title: Insulin resistance mediated plaque composition and inflammation following percutaneous coronary intervention

Funded by: *Order of the Amaranth Diabetes Foundation*



Our Scientists Speak...



"...we are exploring an entirely new aspect of lipoproteins (transporters of fats and cholesterol in the blood) in determining risk for retinopathy...Our new studies...will provide an opportunity for the development of drugs which inhibit abnormal cell signaling and cell death and may retard the development or progression of diabetic retinopathy."

Timothy J. Lyons, MD — Oklahoma University Health Sciences Center, Oklahoma City, Oklahoma



"ADA's postdoctoral fellowship program is wonderfully adapted to the needs of research labs — more so than that of almost any other agency I know."

Diane J. Mathis, PhD — Joslin Diabetes Center, Boston, Massachusetts



"To the donor who has graciously given of his or her resources to make ADA the world-class leader that it is, I must say that 'thank you' is not enough. Irrespective of your contribution amount, my experience is that the motivation of ADA donors is as true as one can find. For whatever reason that you have been moved, you have made a pledge to make life better for someone who has diabetes."

Andrew Muir, MD — Medical College of Georgia, Augusta, Georgia



"Our ADA-funded grant...is critical for the development of strategies to cure diabetes through the creation of insulin-producing cells from stem cells via genetic engineering or through regeneration of existing beta cells."

Ricardo Pastori, PhD — University of Miami School of Medicine, Miami, Florida



**Michael L. McDaniel, PhD**

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Understanding the role of lipoprotein in pancreatic beta cell function and dysfunction

Kelle Harbert Moley, MD

Washington University in St. Louis
St. Louis, MO

Type of Support: Research Award

Project Title: Glut9 expression and function in diabetic and normal tissue

Michael M. Mueckler, PhD

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Glucose transport, insulin signaling, and diabetes

Michael M. Mueckler, PhD

Washington University in St. Louis
St. Louis, MO

Type of Support: Research Award

Project Title: Reconstitution of regulated Glut4 trafficking in vitro

Alan Permutt, MD

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Genetic control of islet beta cell growth and survival

Clay F. Semenkovich, MD

Washington University in St. Louis
St. Louis, MO

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mechanisms of vascular disease in diabetes

Randy S. Sprague, MD

Saint Louis University
St. Louis, MO

Type of Support: Research Award

Project Title: Effect of diabetes on the erythrocyte and vascular control

Randy S. Sprague, MD

Saint Louis University
St. Louis, MO

Type of Support: Innovation Award

Project Title: Effect of diabetes on the erythrocyte and vascular reactivity

Dwight A. Towler, PhD

Washington University in St. Louis
St. Louis, MO

Type of Support: Research Award

Project Title: The role of osteopontin in diabetic vascular disease

NEBRASKA**Keshore Roshan Bidasee, PhD**

University of Nebraska Medical Center
Omaha, NE

Type of Support: Research Award

Project Title: Serca2a dysfunction in diabetic hearts

Steven C. Sansom, PhD

University of Nebraska Medical Center
Omaha, NE

Type of Support: Research Award

Project Title: Role of transient receptor potential calcium channels in statin reversal of glomerular disease in early stage type 2 diabetes mellitus

Steven M. Tracy, PhD

University of Nebraska Medical Center
Omaha, NE

Type of Support: Innovation Award

Project Title: Coxsackievirus induction of insulinitis in young NOD mice
Funded by: *Estate of Gail Patrick*

**NEW JERSEY****Ashwani Malhotra, PhD**

University of Medicine and Dentistry of New Jersey
Newark, NJ

Type of Support: Research Award

Project Title: Hyperglycemia promotes myocyte apoptosis by protein kinase c pathways

Hong Ruan, MD, PhD

University of Medicine and Dentistry of New Jersey
Piscataway, NJ

Type of Support: Junior Faculty Award

Project Title: Molecular mechanisms of TNF-alpha-induced insulin resistance

Funded by: *Estate of Molly Haycraft, Estate of Florence Manahan, Estate of Repka Trust*

NEW MEXICO**Elizabeth Sage Colombo**

University of New Mexico Health Sciences Center
Albuquerque, NM

Type of Support: Physician Scientist Training Award

Project Title: The role of hepatocyte growth factor in proliferative diabetic retinopathy

David S. Schade, MD

University of New Mexico Health Sciences Center
Albuquerque, NM

Type of Support: Clinical Research Award

Project Title: Vitamin therapy for type 2 diabetes

NEW YORK**Domenico Accili, MD**

Columbia University
New York, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Investigation of the molecular mechanism of insulin resistance in the liver

Funded by: *Johnson & Johnson*

Jeanine B. Albu, MD

St Luke's Roosevelt Institute for Health Sciences
New York, NY

Type of Support: Research Award

Project Title: Intramyocellular lipid: Effects of race and diet

Peter Antinozzi, PhD

Columbia University
New York, NY

Type of Support: Junior Faculty Award

Project Title: Using functional screening of diabetes-associated QTLs to identify diabetes-susceptible genes

Jonathan M. Backer, MD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Structural studies on the regulation of class IA PI 3-kinases

Jonathan M. Backer, MD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: Regulation of the p85/p110 PI 3-kinase

Jonathan M. Backer, MD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: The role of the hVps34 PI 3-kinase in nutrient sensing

**Arin Bhattacharjee, PhD**

State University of New York at Buffalo
Buffalo, NY

Type of Support: Junior Faculty Award

Project Title: Sodium-activated potassium channels: Novel players in diabetic neuropathy

Maureen J. Charron, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Interaction of Acrp30 and GLUT4 in development of insulin resistance

Chi-Wing Chow, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: Role of PARP-1 in NFAT transcription regulation and in adipogenesis

Ira J. Goldberg, MD

Columbia University
New York, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Glucose metabolism in the lipotoxic heart

John M. Greally, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: Identification of type 2 diabetes mellitus candidate genes by imprinting analyses of 6q24

George Gilbert Holz, PhD

New York University
New York, NY

Type of Support: Research Award

Project Title: cAMP-regulated guanine nucleotide exchange factors as determinants of pancreatic beta cell stimulus-secretion coupling

Stevan R. Hubbard, PhD

New York University
New York, NY

Type of Support: Research Award

Project Title: Structural basis of APS recruitment to the insulin receptor

Zheng-Gen Jin, PhD

University of Rochester Medical Center
Rochester, NY

Type of Support: Thomas R. Lee Career Development Award

Project Title: Molecular basis for diabetes-associated endothelial dysfunction

Funded by: *Estate of Thomas R. Lee*

Chan Y. Jung, MD, PhD

State University of New York at Buffalo
Buffalo, NY

Type of Support: Research Award

Project Title: Protein phosphorylation involved in insulin-induced GLUT4 recruitment in rat adipocytes: Reconstitution studies

Katherine A. Kaproth-Joslin

State University of New York Upstate Medical University
Syracuse, NY

Type of Support: Physician Scientist Training Award

Project Title: Role of phospholipase C epsilon in glucose-stimulated insulin secretion

William Kim, PhD

Columbia University
New York, NY

Type of Support: Junior Faculty Award

Project Title: RAGE, alpha-actinin 4, smooth muscle cells and cardiovascular disease

Blandine Laferrere, MD

St. Luke's Roosevelt Institute for Health Sciences
New York, NY

Type of Support: Clinical Research Award

Project Title: Mechanisms of diabetes control after weight loss surgery

**Derek Le Roith, MD, PhD**

Mount Sinai School of Medicine
New York, NY

Type of Support: Research Award

Project Title: The use of the MKR mice to evaluate the role of lipids in the pathogenesis of type 2 diabetes

Derek Le Roith, MD, PhD

Mount Sinai School of Medicine
New York, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Use of mouse models to study the pathophysiology of type 2 diabetes

David Joseph Lefer, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: Mechanisms of hepatic ischemia-reperfusion injury in diabetes

Rudolph Leibel, MD

Columbia University
New York, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular genetic analysis of human obesity

Funded by: *Johnson & Johnson*

Lonny R. Levin, PhD

Weill Medical College of Cornell University
New York, NY

Type of Support: Research Award

Project Title: Soluble adenylyl cyclase in insulin secretion

Samy I. McFarlane, MD

State University of New York Downstate Medical Center
Brooklyn, NY

Type of Support: Clinical Research Award

Project Title: Assessment of anemia as a cardiovascular risk factor in early diabetic nephropathy

Michael Marwan Meguid, MD, PhD

State University of New York Upstate Medical University
Syracuse, NY

Type of Support: Research Award

Project Title: Role of hypothalamus in reversing obesity-related diabetes

Robert A. Mooney, PhD

University of Rochester
Rochester, NY

Type of Support: Research Award

Project Title: Role of macrophages in obesity-dependent insulin resistance

Evan David Muse

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Physician Scientist Training Award

Project Title: Novel mechanisms for hypothalamic regulation of glucose fluxes

Jeffrey E. Pessin, PhD

Stony Brook University
Stony Brook, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Insulin regulation of glucose uptake and GLUT4 trafficking

John Quilley, PhD

New York Medical College
Valhalla, NY

Type of Support: Research Award

Project Title: Oxidative stress, COX-2, HO-1 in deficient 20-HETE

Louis Ragolia, PhD

Winthrop University Hospital
Mineola, NY

Type of Support: Thomas R. Lee Career Development Award

Project Title: The molecular basis of vascular smooth muscle cell apoptosis

Funded by: *Estate of Thomas R. Lee*

**Luciano Rossetti, MD**

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Hypothalamic regulation of glucose production

Funded by: *Johnson & Johnson*

Philipp E. Scherer, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: Research Award

Project Title: The role of caveolin-1 in diabetes and energy homeostasis

Philipp E. Scherer, PhD

Albert Einstein College of Medicine
Bronx, NY

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: Characterization of adipogenic progenitor cells

Funded by: *Takeda Pharmaceuticals North America, Inc.*

Alexander Shekhtman, PhD

State University of New York at Albany
Albany, NY

Type of Support: Career Development Award

Project Title: Regulatory interactions of RAGE with its ligands

Markus Stoffel, MD, PhD

Rockefeller University
New York, NY

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: The role of Foxa-2 in insulin-regulation of lipid and glucose homeostasis

Stephen Laurence Sturley, PhD

Columbia University
New York, NY

Type of Support: Research Award

Project Title: Genetic control of cytoplasmic lipid deposition

Susan J. Vannucci, PhD

Columbia University
New York, NY

Type of Support: Research Award

Project Title: The vulnerable diabetic brain: Oxidative stress, RAGE, and stroke

Helen Vlassara, MD

Mount Sinai School of Medicine
New York, NY

Type of Support: Research Award

Project Title: Treatment of atherosclerosis by gene therapy

Denham S. Ward, MD

University of Rochester
Rochester, NY

Type of Support: Clinical Research Award

Project Title: Role of the peripheral chemoreceptors in the counter-regulatory response to hypoglycemia and hypoxia

NORTH CAROLINA**Donald W. Bowden, PhD**

Wake Forest University
Winston-Salem, NC

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Molecular genetics of diabetic cardiovascular disease

M. Elizabeth Hartnett, MD

University of North Carolina at Chapel Hill
Chapel Hill, NC

Type of Support: Research Award

Project Title: An investigation of retinal nonperfusion and its inhibition: A strategy to prevent proliferative diabetic retinopathy

**Madan M. Kwatra, PhD**

Duke University Medical Center
Durham, NC

Type of Support: Research Award

Project Title: Effect of type 2 diabetes on G protein-coupled receptors in the human heart

Laura Ann Maile, PhD

University of North Carolina at Chapel Hill
Chapel Hill, NC

Type of Support: Junior Faculty Award

Project Title: Transmembrane proteins that function coordinately to regulate IGF-I signaling in retinal endothelial cells and pericytes

Funded by: *Estate of Reta Godbey*

Deborah M. Muoio, PhD

Duke University
Durham, NC

Type of Support: Junior Faculty Award

Project Title: Ketone dysregulation and muscle insulin resistance

Christopher B. Newgard, PhD

Duke University
Durham, NC

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Interdisciplinary approaches for development of new therapies for diabetes

Phillip H. Pekala, PhD

East Carolina University
Greenville, NC

Type of Support: Research Award

Project Title: The regulation of adipose tissue metabolism by the RNA binding protein HuR

Sam Pennington, PhD

East Carolina University
Greenville, NC

Type of Support: Research Award

Project Title: Effect of maternal dietary fat on her offspring's insulin response

Robert Rose, PhD

North Carolina State University
Raleigh, NC

Type of Support: Junior Faculty Award

Project Title: Structure/function studies of a key beta cell transcription factor

Michele Sale, PhD

Wake Forest University
Winston-Salem, NC

Type of Support: Career Development Award

Project Title: Identifying genes that contribute to type 2 diabetes in African Americans

Roland M. Tisch, PhD

University of North Carolina at Chapel Hill
Chapel Hill, NC

Type of Support: Research Award

Project Title: The role of CD4+CD25+Treg in GAD65-induced suppression of autoimmune-mediated islet graft destruction

OHIO**John Anthony Bauer, PhD**

Columbus Children's Research Institute
Columbus, OH

Type of Support: Research Award

Project Title: Coronary microvessel rarefaction in type 1 diabetes

**Bonnie J. Brehm, PhD, RD**

University of Cincinnati
Cincinnati, OH

Type of Support: Clinical Research Award

Project Title: A comparison of high monounsaturated fat and high carbohydrate diets on glycemic control and cardiovascular risk factors in type 2 diabetes

Patrick M. Catalano, MD

MetroHealth Medical Center
Cleveland, OH

Type of Support: Gregg Diabetes in Pregnancy Research Award

Project Title: Role of placental leptin in the regulation of fetal growth and adiposity

Funded by: *Terry and Louise Gregg*

David D'Alessio, MD

University of Cincinnati
Cincinnati, OH

Type of Support: Research Award

Project Title: Regulation of beta-cell function in intrahepatic autotransplants

Tsonwin Hai, PhD

Ohio State University
Columbus, OH

Type of Support: Research Award

Project Title: Beta cell transcriptional network in stress response

Paul E. Keck, Jr., MD

University of Cincinnati
Cincinnati, OH

Type of Support: Clinical Research Award

Project Title: A prospective study of glucose tolerance in new onset psychotic and bipolar disorder

Funded by: *Estate of Helen Decker*

David J. Klein, MD, PhD

Cincinnati Children's Hospital Medical Center
Cincinnati, OH

Type of Support: Clinical Research Award

Project Title: A school based diabetes awareness and prevention program (DAPP)

Lisa Martin, PhD

Cincinnati Children's Hospital Medical Center
Cincinnati, OH

Type of Support: Career Development Award

Project Title: The metabolic syndrome: The role of plasma adiponectin and common genetic polymorphisms in adolescents

Funded by: *F.M. Kirby Foundation*

Mohammed Abdul Matlib, PhD

University of Cincinnati
Cincinnati, OH

Type of Support: Research Award

Project Title: Role of mitochondria on diabetic cardiomyopathy

Sonia M. Najjar, PhD

Medical College of Ohio
Toledo, OH

Type of Support: Research Award

Project Title: Insulin signaling in fat metabolism

Stephen F. Previs, PhD

Case Western Reserve University
Cleveland, OH

Type of Support: Junior Faculty Award

Project Title: Protection against insulin resistance: Regulation of triglyceride uptake by adipose tissue

Horacio Luis Rodriguez Rilo, MD

University of Cincinnati Medical Center
Cincinnati, OH

Type of Support: Research Award

Project Title: Hyperglycemia and transplanted islet: Rationale for alternative sites

**Michelle Rogers, PhD**

Department of Veteran Affairs
Cincinnati, OH

Type of Support: Henry Becton Innovation Award

Project Title: The impact of the method of internet access on use of MyHealthVet for patients with type 2 diabetes

Lawrence M. Sayre, PhD

Case Western Reserve University
Cleveland, OH

Type of Support: Research Award

Project Title: Development of selective substrate/inhibitor probes for semicarbazide-sensitive amine oxidases

Bo Wang, PhD

Cincinnati Children's Hospital Medical Center
Cincinnati, OH

Type of Support: Career Development Award

Project Title: Spatiotemporal control of insulinitis in NOD mice

Jinzhong Zhang, PhD

Case Western Reserve University
Cleveland, OH

Type of Support: Lions Diabetic Retinopathy Research Award

Project Title: ACE inhibitor block diabetic retinopathy by inhibiting intracellular accumulation of glucose

Funded by: *Lions Clubs International Foundation*

OKLAHOMA**John D. Ash, PhD**

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Research Award

Project Title: The interaction between Angiotensin 1 and transforming growth factor beta in diabetic vascular disease

Jiande Chen, MD

Veterans Research and Education Foundation
Oklahoma City, OK

Type of Support: Innovation Award

Project Title: Synchronized gastric electrical stimulation for the treatment of diabetic gastroparesis

Kenneth Hensley, PhD

Oklahoma Medical Research Foundation
Oklahoma City, OK

Type of Support: Research Award

Project Title: Tocopherol metabolites in diabetic hypertension

Yun Zheng Le, PhD

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Research Award

Project Title: Retinal Müller cells in neovascularization and diabetic retinopathy

Kangmo Lu, MD, PhD

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Clinical Research Award

Project Title: New risk factors of diabetic retinopathy

Partially Funded by: *Jack and Maxine Zarrow Family Foundation and Thomas F. Darden/Discovery Fund*

Timothy J. Lyons, MD

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Research Award

Project Title: Apolipoproteins and diabetic retinopathy

Funded by: *Linda C. Stills Trust*

**Jian-xing Ma, MD, PhD**

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Research Award

Project Title: A new anti-inflammatory effect of PEDF in diabetic retinopathy

Funded by: *Jack and Maxine Zarrow Family Foundation*

David P. Sparling

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Physician Scientist Training Award

Project Title: Molecular analysis of GLUT4 transcriptional regulatory proteins

Ming Hui Zou, MD, PhD

University of Oklahoma Health Sciences Center
Oklahoma City, OK

Type of Support: Research Award

Project Title: Oxidant stress, eicosanoids, and vascular complications in diabetes

OREGON**Thomas K. Baumann, PhD**

Oregon Health & Sciences University
Portland, OR

Type of Support: Research Award

Project Title: Modulation of sensory neuron excitability by C-peptide of pro-insulin

Melanie B. Gillingham, PhD

Oregon Health & Sciences University
Portland, OR

Type of Support: Junior Faculty Award

Project Title: Fatty acid oxidation, leptin, and insulin resistance

Teresa Hillier, MD

Kaiser Permanente Center for Health Research
Portland, OR

Type of Support: Clinical Research Award

Project Title: Hyperglycemia in pregnancy: Risk factors and outcomes to mother and child in a multi-ethnic population

W. Kenneth Ward, MD

Legacy Clinical Research and Technology Center
Portland, OR

Type of Support: Research Award

Project Title: Interface of a telemetric subcutaneous glucose sensor with an external insulin pump

PENNSYLVANIA**Hwyda A. Arafat, MD, PhD**

Thomas Jefferson University
Philadelphia, PA

Type of Support: Junior Faculty Award

Project Title: Role of osteopontin in pancreatic islet protection for islet transplantation

Alistair John Barber, PhD

Pennsylvania State University
Hershey, PA

Type of Support: Research Award

Project Title: Degeneration of retinal neuron connectivity in diabetes

Guenther Boden, MD

Temple University
Philadelphia, PA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Effects of free fatty acids on carbohydrate metabolism in diabetic and non-diabetic subjects

**Nicholas F. Brown, PhD**

University of Pittsburgh
Pittsburgh, PA

Type of Support: Junior Faculty Award

Project Title: Carnitine palmitoyltransferase, fatty acids and diabetes

Denise Charron-Prochownik, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Clinical Research Award

Project Title: Reproductive health program for teen girls with diabetes:
An intervention study (outcome and cost-effectiveness evaluation)

David K. C. Cooper, MD, PhD, FRCS

University of Pittsburgh
Pittsburgh, PA

Type of Support: Research Award

Project Title: Tolerance induction by concomitant spleen and islet
transplantation in MHC-defined miniature swine

Hengjiang Henry Dong, PhD

Children's Hospital of Pittsburgh
Pittsburgh, PA

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Development of insulin gene therapy for type 1 diabetes

Funded by: *Edsel Ford, II, and Cynthia Ford*

Hengjiang Henry Dong, PhD

Children's Hospital of Pittsburgh
Pittsburgh, PA

Type of Support: Career Development Award

Project Title: Insulin gene therapy for type 1 diabetes

Makoto Funaki, MD, PhD

University of Pennsylvania
Philadelphia, PA

Type of Support: Junior Faculty Award

Project Title: Signal transduction for GLUT4 translocation and activation
by phosphoinositide and the cytoskeleton

Thomas W. Gardner, MD

Pennsylvania State University
Hershey, PA

Type of Support: Research Award

Project Title: Retinal protein synthesis in diabetes

Barry J. Goldstein, MD, PhD

Thomas Jefferson University
Philadelphia, PA

Type of Support: Research Award

Project Title: Adiponectin: Effects on endothelial function and
insulin signaling

Bret Goodpaster, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Clinical Research Award

Project Title: Skeletal muscle lipid and insulin resistance: Effects of
physical activity and weight loss

Leonard S. Jefferson, Jr., PhD

Pennsylvania State University
Hershey, PA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Role of AMP-activated protein kinase in modulating protein
synthesis in skeletal muscle

David E. Kelley, MD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Skeletal muscle insulin resistance in type 2 diabetes

Jason K. Kim, PhD

Pennsylvania State University
Hershey, PA

Type of Support: Research Award

Project Title: Role of interleukin-6 and -10 in the development of insulin
resistance

**Michael P. King, PhD**

Thomas Jefferson University
Philadelphia, PA

Type of Support: Research Award

Project Title: Genetic correction of mitochondrial diabetes

Mitchell A. Lazar, MD, PhD

University of Pennsylvania
Philadelphia, PA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Biology of human resistin

Youhua Liu, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Research Award

Project Title: Therapeutic role of hepatocyte growth factor in diabetes nephropathy

Xinliang Ma, MD, PhD

Thomas Jefferson University
Philadelphia, PA

Type of Support: Research Award

Project Title: Reactive nitrogen species and cardioprotection of adiponectin

Franz M. Matschinsky, MD

University of Pennsylvania
Philadelphia, PA

Type of Support: Research Award

Project Title: Induction of the pancreatic islet glucokinase glucose sensor by non-metabolizable sugars: Implications for beta cell biochemistry, diabetes and therapeutics

Penelope Anne Morel, MD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Research Award

Project Title: Dendritic cells prevent type 1 diabetes by inducing Treg cells

Robert Martin O'Doherty, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Research Award

Project Title: Insulin resistance and the IKK/IkappaB/NF-kappa B pathway

Jon D. Piganelli, PhD

Children's Hospital of Pittsburgh
Pittsburgh, PA

Type of Support: Innovation Award

Project Title: Endoplasmic reticulum stress (ER-stress) enhances autoantigenicity in diabetes

Paul Robbins, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Islet Cell Replacement in Type 1 Diabetes Award

Project Title: Development of methods for insulin gene transfer to K cells in vivo

Funded by: *Don and Arleen Wagner*

Rosario Scalia, MD, PhD

Thomas Jefferson University
Philadelphia, PA

Type of Support: Research Award

Project Title: Pathologic leukocyte trafficking in the microcirculation during hyperglycemia: Pathophysiologic implications in the prevention and therapy of diabetic vascular disease

Ian Simpson, PhD

Pennsylvania State University
Hershey, PA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Diabetes and stroke

Ian Simpson, PhD

Pennsylvania State University
Hershey, PA

Type of Support: Research Award

Project Title: Diabetes impairs brain recovery after stroke in mice



Our Scientists Speak...



"The main area of focus in [our] investigation is the development of a childhood obesity program...I hope that by developing an intervention that can be implemented in young children that helps to bring weight down into a healthy range, the prevalence of type 2 diabetes in children will decrease."

Hollie Raynor, PhD, RD — Brown Medical School, The Miriam Hospital, Providence, Rhode Island



"...we are testing the usefulness of a new tool to measure diabetes-related math and reading skills among a sample of primary care patients with type 2 diabetes...Ultimately, this ADA award is helping us to develop programs that will make it easier for people with diabetes to care for themselves..."

Russell Rothman, MD — Vanderbilt University Medical Center, Nashville, Tennessee



"The initial funding that I received from the ADA led to the exciting discovery of a novel islet cell type and helped to establish my successful research career."

Lori Sussel, PhD — University of Colorado Health Sciences Center, Denver, Colorado



"I can only express admiration and respect for the commitment and dedication the American Diabetes Association displays in multiple ways that have enabled it to achieve so much over the years, and I am confident that it will continue to be supported by the extremely generous donors until the day the battle against diabetes and its complications is won."

Helen Vlassara, MD — Mount Sinai School of Medicine, New York, New York



**Charles A. Stanley, MD**

Children's Hospital of Philadelphia
Philadelphia, PA

Type of Support: Research Award

Project Title: Insulin secretion, amino acids & the glutamine/glutamate/ketoglutarate axis

Andrew Fyfe Stewart, MD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Research Award

Project Title: Hepatocyte growth factor and in vivo human islet function

Doris Stoffers, MD, PhD

University of Pennsylvania
Philadelphia, PA

Type of Support: Career Development Award

Project Title: Growth of the endocrine pancreas

Elsa S. Strotmeyer, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Junior Faculty Award

Project Title: Longitudinal changes in bone mineral density with diabetes mellitus

Rupangi C. Vasavada, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Career Development Award

Project Title: Lactogens and pancreatic beta cell survival

Jeffrey David Zahn, PhD

Pennsylvania State University
University Park, PA

Type of Support: Junior Faculty Award

Project Title: Microneedle insertion actuators for minimally invasive insulin delivery to diabetic patients

Funded by: *Order of the Amaranth Diabetes Foundation*

Janice Christine Zgibor, PhD

University of Pittsburgh
Pittsburgh, PA

Type of Support: Junior Faculty Award

Project Title: Predicting cardiovascular risk in type 1 diabetes

Fuad N. Ziyadeh, MD

University of Pennsylvania
Philadelphia, PA

Type of Support: Research Award

Project Title: Regulation of VEGF expression by angiotensin II in podocytes

RHODE ISLAND**Hollie Raynor, PhD, RD**

Brown Medical School, The Miriam Hospital
Providence, RI

Type of Support: ADA Healthy Food Choices Research Award

Project Title: Changing eating behaviors in young children: Should healthy foods be increased or unhealthy foods decreased?

Funded by: *ARAMARK Charitable Fund*

Surendra Sharma, PhD

Women & Infants Hospital of Rhode Island
Providence, RI

Type of Support: Gregg Diabetes in Pregnancy Research Award

Project Title: Immune programming of gestational diabetes

Funded by: *Terry and Louise Gregg*

SOUTH CAROLINA**Kelly J. Hunt, PhD**

Medical University of South Carolina
Charleston, SC

Type of Support: Research Award

Project Title: Gestational, early life and genetic effects on obesity and diabetes

**Angela D. Liese, PhD**

University of South Carolina
Columbia, SC

Type of Support: Clinical Research Award

Project Title: Dietary glycemic index in relation to the metabolic syndrome: An ancillary study to the insulin resistance arteriosclerosis study (IRAS)

SOUTH DAKOTA**Da-Qing Yang, PhD**

University of South Dakota
Vermillion, SD

Type of Support: Innovation Award

Project Title: Functional linkage between ATM protein kinase and glucose transporter 4 translocation in response to insulin

TENNESSEE**Alan D. Cherrington, PhD**

Vanderbilt University
Nashville, TN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Metabolic regulation in vivo

Tom A. Elasy, MD, MPH

Vanderbilt University
Nashville, TN

Type of Support: Career Development Award

Project Title: Prevention of glycemic relapse in the primary care setting

Ivan Cullen Gerling, PhD

University of Tennessee Health Science Center
Memphis, TN

Type of Support: Innovation Award

Project Title: New biosignatures of islet graft destruction

Daryl K. Granner, MD

Vanderbilt University
Nashville, TN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Induction of PEPCK gene expression by PGC-1 and glucocorticoids

Alyssa H. Hasty, PhD

Vanderbilt University
Nashville, TN

Type of Support: Junior Faculty Award

Project Title: The role of hyperleptinemia in macrophage cholesterol homeostasis and atherogenesis

Jung Han Kim, PhD

University of Tennessee
Knoxville, TN

Type of Support: Research Award

Project Title: Metabolic and genomic characterization of early onset hypertriglyceridemia in a new mouse model of NIDDM, TallyHo

Li-Jun Ma, MD, PhD

Vanderbilt University
Nashville, TN

Type of Support: Research Award

Project Title: Prevention of obesity and insulin resistance by inhibition of PAI-1

Mark A. Magnuson, MD

Vanderbilt University
Nashville, TN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Mouse models that mimic human glucokinase disorders

Owen Patrick McGuinness, PhD

Vanderbilt University
Nashville, TN

Type of Support: Research Award

Project Title: Determinants of the hepatic adaptation to nutrient availability

**Edwards A. Park, PhD**

University of Tennessee Health Science Center
Memphis, TN

Type of Support: Research Award

Project Title: Regulation of hepatic glucose production

Russell Lawrence Rothman, MD

Vanderbilt University
Nashville, TN

Type of Support: Novo Nordisk Clinical Research Award

Project Title: Addressing literacy and numeracy in primary care patients with diabetes

Funded by: *Novo Nordisk, Inc.*

Roland W. Stein, PhD

Vanderbilt University
Nashville, TN

Type of Support: Research Award

Project Title: Determining how the MafB transcription factor influences the formation and function of the islet

David H. Wasserman, PhD

Vanderbilt University Medical Center
Nashville, TN

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Control of glucose fluxes in physiology and diabetes

Lan Wu, MD

Vanderbilt University Medical Center
Nashville, TN

Type of Support: Junior Faculty Award

Project Title: Glucokinase, stress response, and beta cell failure in diabetes

Chunxiang Zhang, MD, PhD

University of Tennessee Health Science Center
Memphis, TN

Type of Support: Junior Faculty Award

Project Title: Leukocyte-derived myeloperoxidase in diabetic vascular complications

TEXAS**Mandeep Bajaj, MD**

University of Texas
Galveston, TX

Type of Support: Clinical Research Award

Project Title: Adiponectin resistance in type 2 diabetes: Effects of exercise and PPAR-gamma agonists

Christie M. Ballantyne, MD

Baylor College of Medicine
Houston, TX

Type of Support: Research Award

Project Title: Effects of diet-induced weight gain and weight loss on inflammation in man and mouse

Philip M. Barger, MD

Baylor College of Medicine
Houston, TX

Type of Support: Innovation Award

Project Title: The role of PPAR alpha in diabetic cardiomyopathy

Narasimhaswamy S. Belaguli, PhD

Baylor College of Medicine
Houston, TX

Type of Support: Research Award

Project Title: Role of serum response factor in pancreatic development and gene expression

Shawn C. Burgess, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Junior Faculty Award

Project Title: Impact of extra-hepatic glucose production on liver and kidney metabolism in a transgenic mouse model

**Eugenio Cersosimo, MD**

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Clinical Research Award

Project Title: Strategies to improve endothelial dysfunction in Hispanics with type 2 diabetes

Chu-Huang Chen, MD, PhD

Baylor College of Medicine
Houston, TX

Type of Support: Research Award

Project Title: Phospholipid-mediated vascular endothelial cell apoptosis in hyperlipidemia

Melanie Houston Cobb, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Role of map kinase in regulation of insulin gene transcription in beta cells

Funded by: *William K. Warren Foundation*

Ralph Anthony DeFronzo, MD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: Lipo-glucoxicity, insulin resistance, and mitochondrial dysfunction

Funded by: *Takeda Pharmaceuticals North America, Inc.*

Ralph Anthony DeFronzo, MD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Lipoglucotoxicity, mitochondrial dysfunction, and insulin resistance

Lily Q. Dong, PhD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Career Development Award

Project Title: Regulation of adiponectin signaling by phosphorylation

Jannette Marie Dufour, PhD

Texas Tech University Health Sciences Center
Lubbock, TX

Type of Support: Junior Faculty Award

Project Title: Harnessing the immunoprotective properties of Sertoli cells for islet transplantation

Joel Keith Elmquist, DVM, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: The Richard & Susan Smith Family Foundation Pinnacle Program Project Award

Project Title: The role of PI3K signaling in the arcuate nucleus

Funded by: *The Richard & Susan Smith Family Foundation*

Mingui Fu, MD, PhD

The University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Junior Faculty Award

Project Title: Role of the Ras-related GTPase Rad in diabetic vascular remodeling

Partially Funded by: *Estate of Raquel A. Wolfe*

Samy L. Habib, PhD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Junior Faculty Award

Project Title: Role of diabetes in development of renal cell carcinoma

Balakuntalam S. Kasinath, MD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Research Award

Project Title: AMP kinase in diabetic nephropathy

**Fred Kruse, PhD**

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Innovation Award

Project Title: Ultrasound targeted microbubble destruction to treat diabetes

Funded by: *Mr. and Mrs. James B. Nutter, Sr.*

Lawrence A. Lavery, DPM, MPH

Texas A&M Health Science Center
Georgetown, TX

Type of Support: Clinical Research Award

Project Title: Foot complications in dialysis patients with diabetes

Donna M. Lehman, PhD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Junior Faculty Award

Project Title: Investigation of a candidate gene for albuminuria, a marker of diabetic nephropathy, in Mexican Americans

Wen-hong Li, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Career Development Award

Project Title: Mechanisms and functions of internal calcium release in insulin secreting beta cells

Feng Liu, PhD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Research Award

Project Title: Molecular mechanisms of hyperlipidemia-induced insulin resistance

Nicolas Musi, MD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: Junior Faculty Award

Project Title: Molecular mechanism of inflammation-associated skeletal muscle insulin resistance in Mexican Americans with type 2 diabetes

Shrikanth Reddy, PhD

University of Texas MD Anderson Cancer Center
Houston, TX

Type of Support: Research Award

Project Title: Regulation of a novel Akt-binding protein by insulin and growth factors

Joyce Repa, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Research Award

Project Title: Orphan nuclear receptor biology in the endocrine pancreas

Dawn Katrina Richardson, PhD

University of Texas Health Science Center at San Antonio
San Antonio, TX

Type of Support: ADA-EASD Trans-Atlantic Fellowship Award

Project Title: Lipo-glucotoxicity, insulin resistance, and mitochondrial dysfunction

Rajagopal V. Sekhar, MD

Baylor College of Medicine
Houston, TX

Type of Support: Innovation-Geriatric Endocrinology Award

Project Title: The effect of type 2 diabetes and aging on glutathione synthesis and oxidative stress

Lidia S. Szczepaniak, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Innovation Award

Project Title: Cardiac steatosis as a novel mechanism of diabetic heart disease in Hispanics

Ronald G. Tilton, PhD

University of Texas Medical Branch
Galveston, TX

Type of Support: Research Award

Project Title: Chronic NF-kappaB activation: Mechanisms, inhibition, and role in diabetic nephropathy

**Chao-yuh Yang, PhD**

Baylor College of Medicine
Houston, TX

Type of Support: Research Award

Project Title: Atherogenic low density lipoprotein fraction in type 2 diabetes mellitus

Jeffrey Marc Zigman, MD, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Junior Faculty Award

Project Title: Identification of central targets of ghrelin

Andrew Robert Zinn, MD, PhD

University of Texas Southwestern Medical Center at Dallas
Dallas, TX

Type of Support: Research Award

Project Title: Sim1 gene dosage and energy balance

UTAH**Donald A. McClain, MD, PhD**

University of Utah
Salt Lake City, UT

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Hexosamines and regulation of glycogen synthase

Brian Timothy O'Neill

University of Utah
Salt Lake City, UT

Type of Support: Physician Scientist Training Award

Project Title: The role of altered PI3 kinase and akt signaling in diabetic cardiomyopathy

Jared Paul Rutter, PhD

University of Utah
Salt Lake City, UT

Type of Support: Career Development Award

Project Title: The role of PAS kinase in glucose-responsive transcription in beta cells

Jared Paul Rutter, PhD

University of Utah
Salt Lake City, UT

Type of Support: Minority Undergraduate Internship Award

Project Title: The role of PAS kinase in beta-cell metabolism

Scott Summers, PhD

University of Utah
Salt Lake City, UT

Type of Support: Research Award

Project Title: The role of ceramides in insulin resistance

VERMONT**Thomas L. Jetton, PhD**

University of Vermont
Burlington, VT

Type of Support: Research Award

Project Title: Mechanisms of compensatory beta cell mass expansion to insulin resistance

John L. Leahy, MD

University of Vermont
Burlington, VT

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Postdoctoral training in beta cell biology and pathophysiology

Mina Peshavaria, PhD

University of Vermont
Burlington, VT

Type of Support: Research Award

Project Title: Role of Foxo1, a forkhead transcription factor in islet neogenesis

**Burton E. Sobel, MD**

University of Vermont
Colchester, VT

Type of Support: Research Award

Project Title: Intramural plasminogen activator inhibitor type-1 (PAI-1):
A determinant of plaque vulnerability associated with type 2 diabetes

VIRGINIA**Eugene J. Barrett, MD, PhD**

University of Virginia
Charlottesville, VA

Type of Support: Clinical Research Award

Project Title: Insulin regulates muscle insulin delivery and uptake

Sheri R. Colberg, PhD

Old Dominion University
Norfolk, VA

Type of Support: Clinical Research Award

Project Title: Mechanisms of exercise-induced improvement in defective
neurovascular function in type 2 diabetes

Funded by: *Order of the Amaranth Diabetes Foundation*

Matthew W. Hulver, PhD

Virginia Polytechnic Institute and State University
Blacksburg, VA

Type of Support: Junior Faculty Award

Project Title: The role of stearoyl-CoA desaturase in skeletal muscle lipid
accumulation and insulin resistance

John Charles Lawrence, PhD

University of Virginia
Charlottesville, VA

Type of Support: Research Award

Project Title: Mechanism of action of lipin

Zhenqi Liu, MD

University of Virginia
Charlottesville, VA

Type of Support: Research Award

Project Title: Mechanistic studies of insulin-mediated myocardial
protection

Raghavendra G. Mirmira, MD, PhD

University of Virginia
Charlottesville, VA

Type of Support: Thomas R. Lee Career Development Award

Project Title: Epigenetic regulation of insulin gene transcription

Funded by: *Estate of Thomas R. Lee*

Rita Shiang, PhD

Virginia Commonwealth University
Richmond, VA

Type of Support: Research Award

Project Title: Cloning of the wolfram syndrome 2 (WFS2) gene

Aaron I. Vinik, MD, PhD

Eastern Virginia Medical School
Norfolk, VA

Type of Support: Clinical Research Award

Project Title: The role of eicosanoids in the neurovascular dysfunction in
diabetes

WASHINGTON**Laura Dehaven Baker, PhD**

VA Puget Sound Health Care System
Tacoma, WA

Type of Support: Clinical Research Award

Project Title: Cognitive effects of aerobic exercise for older adults with
impaired glucose tolerance: A controlled trial

**Alan Chait, MD**

University of Washington
Seattle, WA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Postdoctoral Fellowship Award

Project Title: Diabetes and macrovascular disease: Role of inflammation and lipoprotein-matrix interactions

Funded by: *Estate of Freeda E. Kirby*

Karen L. Edwards, PhD

University of Washington
Seattle, WA

Type of Support: Research Award

Project Title: Genome scan of multivariate factors underlying the metabolic syndrome in the GENNID study

Pamela Jean Fink, PhD

University of Washington
Seattle, WA

Type of Support: Innovation Award

Project Title: Induction of tolerance to pancreatic antigens in recent thymic emigrants

Funded by: *Estate of Gail Patrick*

Christiane S. Hampe, PhD

University of Washington
Seattle, WA

Type of Support: Career Development Award

Project Title: Epitope-specific GAD65 monoclonal antibodies modulate GAD65 antigen processing and presentation

Steven E. Kahn, MB, ChB

VA Puget Sound Health Care System
Seattle, WA

Type of Support: Distinguished Clinical Scientist Award

Project Title: The beta cell and insulin sensitivity in type 2 diabetes and related disorders

Steven E. Kahn, MB, ChB

VA Puget Sound Health Care System
Seattle, WA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Reduction of beta cell secretory demand and islet amyloid formation

Åke Lernmark, MD

University of Washington
Seattle, WA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: *Ian5* gene induction of type 1 diabetes

Åke Lernmark, MD

University of Washington
Seattle, WA

Type of Support: Gregg Diabetes in Pregnancy Research Award

Project Title: Maternal autoantibodies as risk factors for diabetes

Funded by: *Terry and Louise Gregg*

Marguerite J. McNeely, MD, MPH

University of Washington
Seattle, WA

Type of Support: Career Development Award

Project Title: Predictors and correlates of visceral adiposity

Daniel Horacio Moralejo, DVM, PhD

University of Washington
Seattle, WA

Type of Support: Junior Faculty Award

Project Title: Role of the *Ian5*, *Cckar*, and *Lepr* genes in diabetes and obesity development in the congenic rat

Gerald T. Nepom, MD, PhD

Benaroya Research Institute at Virginia Mason
Seattle, WA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Autoreactive T cells in type 1 diabetes

**Vincent Poitout, PhD**

Pacific Northwest Research Institute
Seattle, WA

Type of Support: Career Development Award

Project Title: Mechanisms of fatty-acid potentiation of insulin secretion

Funded by: *Estate of Thomas R. Lee*

Helena Kristiina Reijonen, PhD

Benaroya Research Institute at Virginia Mason
Seattle, WA

Type of Support: Research Award

Project Title: Autoreactive CD4+ T-cells in type 1 diabetes and mechanisms of MHC class II mediated protection

Christopher John Rhodes, PhD

Pacific Northwest Research Institute
Seattle, WA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Postdoctoral research into signal transduction and control of beta-cell function, growth and survival

R. Paul Robertson, MD

Pacific Northwest Research Institute
Seattle, WA

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Chronic oxidative stress as a mechanism for glucose toxicity

Nicole M. Sanders, PhD

VA Puget Sound Health Care System
Seattle, WA

Type of Support: Junior Faculty Award

Project Title: The role of hindbrain serotonin neurons in glucose counterregulatory responses and in the development of hypoglycemia-associated autonomic failure (HAAF)

Stuart J. Shankland, MD

University of Washington
Seattle, WA

Type of Support: Research Award

Project Title: Podocyte injury in diabetic nephropathy

Stuart J. Shankland, MD

University of Washington
Seattle, WA

Type of Support: ADA-Takeda Pharmaceuticals Mentor-Based Minority Postdoctoral Fellowship Award

Project Title: Angiotensin II and the podocyte in diabetic nephropathy

Funded by: *Takeda Pharmaceuticals North America, Inc.*

David Scott Weigle, MD

University of Washington
Seattle, WA

Type of Support: Clinical Research Award

Project Title: The impact of dietary omega-3-polyunsaturated fatty acids on the regulation of body weight

Funded by: *Judith E. and Joseph C. Cook, Jr., Foundation*

Bessie Ann Young, MD

University of Washington
Seattle, WA

Type of Support: Career Development Award

Project Title: Racial differences in the epidemiology, treatment and progression of diabetic nephropathy

Steven Frank Ziegler, PhD

Benaroya Research Institute at Virginia Mason
Seattle, WA

Type of Support: Research Award

Project Title: Regulation of T cell tolerance by scurf in FoxP3

WEST VIRGINIA**Jason Delwyn Huber, PhD**

West Virginia University
Morgantown, WV

Type of Support: Junior Faculty Award

Project Title: Effects of diabetes on blood-brain barrier function and structure

**Heimo Riedel, PhD**

West Virginia University
Morgantown, WV

Type of Support: Research Award

Project Title: Grb10, a missing piece in the insulin receptor signaling puzzle

WISCONSIN**Alan D. Attie, PhD**

University of Wisconsin-Madison
Madison, WI

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Genetics and genomics of type 2 diabetes in mice

Partially Funded by: *Estate of Richard Hinny*

Lisa Ann Cirillo, PhD

Medical College of Wisconsin
Milwaukee, WI

Type of Support: Research Award

Project Title: Chromatin binding and remodeling by Foxo1

Lisa Ann Cirillo, PhD

Medical College of Wisconsin
Milwaukee, WI

Type of Support: Innovation Award

Project Title: Chromatin remodeling during insulin signaling:
The role of Foxo1

Partially Funded by: *Robert V. & Joan Doehler Poppert*

Soumitra Ghosh, MD, PhD

Medical College of Wisconsin
Milwaukee, WI

Type of Support: Research Award

Project Title: Genetics of autoimmunity in type 1 diabetes mellitus

Ronald Klein, MD, MPH

University of Wisconsin-Madison
Madison, WI

Type of Support: Mentor-Based Postdoctoral Fellowship Award

Project Title: Population-based epidemiology of diabetic complications

Jon S. Odorico, MD

University of Wisconsin-Madison
Madison, WI

Type of Support: Research Award

Project Title: Pancreatic lineage specification from endoderm-committed ES cells

Mari Palta, PhD

University of Wisconsin-Madison
Madison, WI

Type of Support: Clinical Research Award

Project Title: The Wisconsin women and diabetes study: Bone mineral density and estrogen levels in premenopausal women with and without type 1 diabetes

Anath Shalev, MD

University of Wisconsin-Madison
Madison, WI

Type of Support: Junior Faculty Award

Project Title: Control of human insulin biosynthesis by specific regulation of translation

Nader Sheibani, PhD

University of Wisconsin-Madison
Madison, WI

Type of Support: Research Award

Project Title: Thrombospondin-1 and development of diabetic retinopathy

WYOMING**Nair Sreejayan, PhD**

University of Wyoming
Laramie, WY

Type of Support: Junior Faculty Award

Project Title: Novel synthetic chromium-amino acid complexes as enhancers of insulin response



THE AMERICAN DIABETES ASSOCIATION FEDERAL CO-SUPPORT GRANTS

The American Diabetes Association Research Foundation provides support to select federally funded research programs. The Association feels that these programs hold significant promise to affect the lives of individuals with diabetes or those at risk for developing the disease. By contributing to these studies, additional research will be completed that would not have been possible without our contribution.

Glycemic Control and Complications in Diabetes Mellitus Type 2

Primary Funding Agency: Veterans Administration

Study Location: Friends Research Institute, Baltimore, Maryland

Cardiovascular complications are major causes of illness and death in patients with type 2 diabetes. The purpose of this clinical trial is to study the effect of intensive glucose control on cardiovascular complications in patients with type 2 diabetes.

HEALTHY Trial [Formerly STOPP-T2D (Studies to Treat or Prevent Pediatric Type 2 Diabetes)]

Primary Funding Agency: National Institute of Diabetes & Digestive & Kidney Diseases of the National Institutes of Health

Additional Funding: The Institute for Public Health and Water Research

Study Location: Seven sites around the country

The HEALTHY Trial will test a program to lower risk factors for type 2 diabetes in middle school students by improving cafeteria lunches, vending machine offerings, and physical education and promoting behavioral change.

TODAY (Treatment Options for Type 2 Diabetes in Adolescents and Youth) Trial

Primary Funding Agency: National Institute of Diabetes & Digestive & Kidney Diseases of the National Institutes of Health

Study Location: Twelve medical centers and affiliated sites around the country

There are currently only two approved drug therapies for children with type 2 diabetes: metformin and insulin. Experience with adults with diabetes demonstrates that, over time, it becomes harder to control blood glucose with a single medication alone. The TODAY study seeks to identify the best treatment of type 2 diabetes in children and teens.



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Randall Joseph Owens, PhD**

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Indiana

Robert V. Considine, PhD**

Kansas

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Kentucky

Jianhua Shao, PhD***

Louisiana

Jacqueline Marie Stephens, PhD**

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Carole Sztalryd, PhD**

Massachusetts

Anthony Carruthers, PhD**

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Clinical Therapeutics/New Technology**California**

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