

**Table 1.Pilot & Feasibility Program  
Awards Made Since Program Inception**

| <b>Project</b> | <b>Year</b> | <b>Investigator</b> | <b>Title</b>   | <b>Present Position</b>  | <b>Publishing in Diabetes and Metabolism</b> |
|----------------|-------------|---------------------|--|--|--|
| 1              | 1977        | Philip E. Cryer     | Adrenergic pathophysiology in diabetes mellitus  | Professor Emeritus, Washington University                          | Y  |
| 2              | 1977        | Leonard Jarett      | Clinical insulin receptor and metabolic response assays                                | Professor Emeritus, University of Pennsylvania                     | Y  |
| 3              | 1977        | Jay M. McDonald     | Calcium uptake and ATPase of adipocytes  | Professor, University of Alabama                                   | Y  |
| 4              | 1977        | Glenn E. Rodey      | HLA complex, primary immune responsiveness and Ir genes                                | Professor, Baylor College of Medicine                              | N  |
| 5              | 1977        | Herschel J. Raskas  | Cloning of the fish insulin gene   | Private industry   | N  |
| 6              | 1977        | Julio V. Santiago   | Studies with an artificial endocrine pancreas  | Deceased   |  |
| 7              | 1977        | Dennis M. Bier      | Amino acid nitrogen and protein metabolism in diabetes mellitus                        | Professor, Baylor College of Medicine                              | Y  |
| 8              | 1977        | Clifford Birge      | Home Health aides as patient educators   | Assistant Professor, Washington University                         | N  |
| 9              | 1978        | Ronald L. Gingerich | Mechanisms of pancreatic polypeptide release in vitro                                  | CEO & founder, LINCO Inc.  | Y  |
| 10             | 1978        | Milton Schlesinger  | Formation and structure of a glucose transport protein complex in tissue culture cells | Professor Emeritus, Washington University                          | Emeritus                                     |
| 11             | 1978        | Lee Benham          | Economic analysis of the medical costs associated with diabetes                        | Professor, Washington University                                   | N  |
| 12             | 1979        | Barbara J. Anderson | Family adaptation, compliance and control in juvenile diabetes: a development study    | Professor, Baylor College of Medicine                              | Y  |
| 13             | 1979        | John M. Chirgwin    | Control of insulin release and the regulation of insulin gene expression               | Professor, University of Texas Health Science Center San Antonio   | Y  |
| 14             | 1980        | Sandra L. Blethen   | Somatomedin protein complexes, studies of structures function, and synthesis           | Vice President, Medical Affairs, Terceca, Inc. (biopharmaceutical) | Y  |

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|----------------|-------------|---------------------|---|--|--|
| 15             | 1980        | Boas Gonen          | Carbohydrate content and cellular binding properties of LDL in diabetes mellitus                        | Octagon Research Solutions (biopharmaceutical)         | Y  |
| 16             | 1980        | John C. Lawrence    | Hormonal control of glycogen synthesis  | Professor, University of Virginia                      | Y  |
| 17             | 1980        | Robert M. Carney    | Diabetes, compliance and behavior therapy   | Professor, Washington University                       | Y  |
| 18             | 1980        | Edwin B. Fisher     | Health aides for dietary management of diabetes   | Professor, University of North Carolina, Chapel Hill   | Y  |
| 19             | 1980        | Denise Faustman     | Immunological phenomena related to transplantation of islets of langerhans                              | Associate Professor, Harvard Medical School            | Y  |
| 20             | 1981        | Albert Roos         | Effect of insulin on intracellular pH of skeletal muscle through regulation of ionic membrane transport | Professor Emeritus, Washington University              | Emeritus                                     |
| 21             | 1981        | Leonard S. Green    | Conditioning of glycemic response   | Professor, Washington University                       | N  |
| 22             | 1981        | Theodore J. Hahn    | Insulin regulation of renal vitamin D metabolism  | Professor, UCLA School of Medicine                     | Y  |
| 23             | 1981        | Joseph Yang         | The role of insulin in the brain  | Scientist, Linco Research                              | N  |
| 24             | 1981        | Steven R. Bergmann  | Characterization of myocardial metabolism in diabetes   | Adjunct Professor, Columbia University                 | Y  |
| 25             | 1981        | Howard M. Gebel     | HLA-linked IR genes and juvenile diabetes   | Professor, Emory University                            | Y  |
| 26             | 1981        | Roland Valdes       | Altered properties of glycosylated proteins known to be elevated in diabetes                            | Professor, University of Louisville School of Medicine | Y  |
| 27             | 1982        | Peter Rotwein       | Molecular analysis of human insulin gene variants   | Professor, University of Oregon Health Sciences        | Y  |
| 28             | 1982        | John W. Turk        | Arachidonic acid metabolism in the pancreatic islet   | Professor, Washington University                       | Y  |

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| 29             | 1982        | Stephen Giddings    | Insulin messenger RNA metabolism in diabetes mellitus   | Associate Professor, Washington University                           | N  |
| 30             | 1982        | Vivian L. Braciale  | Insulin receptors on clone murine T lymphocytes   | Associate Professor, University of Texas Medical Branch Galveston    | N  |
| 31             | 1982        | Alan M. Delamater   | Stress behavior and metabolic control in IDDM   | Professor, University of Miami                                       | Y  |
| 32             | 1982        | William E. Clutter  | Norepinephrine kinetics in diabetes mellitus  | Associate Professor, Washington University                           | N  |
| 33             | 1983        | Kwok-Ming Chan      | Effect of diabetes on Ca <sup>++</sup> transport in rat liver                                       | Professor and Chief of Toxicology, University of Southern California | N  |
| 34             | 1983        | Richard Kenagy      | Regulation of cholesterol ester metabolism of arterial smooth muscle cells in vitro                 | Scientist, University of Washington                                  | Y  |
| 35             | 1983        | Mark E. Frisse      | Computer-assisted intensive insulin therapy   | Professor, Vanderbilt University                                     | N  |
| 36             | 1983        | Marc R. Hammerman   | Insulin effects on renal membrane phosphorylation and transport                                     | Professor, Washington University                                     | Y  |
| 37             | 1984        | Stanley Misler      | Single ionic channel currents in rat pancreatic beta cells  | Associate Professor, Washington University                           | Y  |
| 38             | 1984        | Thomas G. Cole      | Pathways of hepatic lipoprotein synthesis in diabetes   | Scientist, Linco Research  | Y  |
| 39             | 1983        | Robert Levine       | Structural and functional properties of C4 allotypes and type 1 diabetes                            | Adjunct Assistant Professor, Dartmouth Medical College               | N  |
| 40             | 1984        | Genevieve Yue       | In vivo glucose metabolism in mammalian skeletal muscle   | Central Valley Diabetes and Endocrine Care, Modesto CA               | N  |
| 41             | 1984        | Gary Trick          | Early detection of diabetic optic neuropathy using pattern-reversal retinal and cortical potentials | Professor, University of Montreal                                    | Y  |

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| 42             | 1984        | Donald Bishop/Joni Mayer | Worksite weight loss program   | Research Director, Minnesota Dept of Health; Professor, San Diego State Univ. | N  |
| 43             | 1985        | Alan Daugherty           | Diabetic-induced changes in lipoprotein metabolism and their relevance to atherosclerosis        | Professor, University of Kentucky   | Y  |
| 44             | 1985        | Sherida Tollefsen        | Oligosaccharide structures of the insulin receptor   | Associate Professor, St. Louis University                                     | N  |
| 45             | 1985        | Barbara Cole             | Membrane fluidity and phospholipids in diabetic kidneys  | retired   | N  |
| 46             | 1985        | Michael J. Strube        | Health care attitudes and adherence among diabetics  | Professor, Washington University  | Y  |
| 47             | 1985        | Karen E. Flavin          | Assessment of clinical diabetes management by physicians   | Nursing Administrator, Washington University                                  | Y  |
| 48             | 1986        | Wendy Auslander          | Family coping patterns and control in high risk IDDM   | Professor, Washington University  | Y  |
| 49             | 1986        | Mike Mueckler            | Structure and function of the glucose transporter  | Professor, Washington University  | Y  |
| 50             | 1986        | Erika Crouch             | Metabolism of basement membrane collagen during wound healing in streptozotocin-induced diabetes | Professor, Washington University  | Y  |
| 51             | 1986        | David Silbert            | Membrane lipids and insulin-induced hexose transport   | Deceased  | N/A  |
| 52             | 1987        | James B. Lefkowitz       | Dietary modulation of pancreatic islet IA+ cells   | Deceased  | N/A  |
| 53             | 1987        | Phyllis Whiteley         | Mechanisms of self-tolerance to insulin  | Scientist, Perlegen Sciences  | Y  |
| 54             | 1987        | Myrlene Staten           | Metabolic effects of exercise in older obese people  | Senior Advisor Diabetes Translational Research at NIDDK                       | N  |
| 55             | 1988        | David Dempsher           | Insulin secretion and sensitivity in relatives of type 1 diabetics                               | Assistant Professor, St. Louis University                                     | N  |

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|----------------|-------------|--------------------------------|---|--|--|
| 56             | 1988        | David James                    | Cell biology of insulin-stimulated glucose transport                                    | Professor, University of Queensland  | Y  |
| 57             | 1988        | Walter Nord, Joan Heins        | The influence of work on the management of diabetes                                     | Professor, University of South Florida; Clinical Specialist, Washington University | N  |
| 58             | 1988        | Arthur Loewy                   | Neural control of the pancreas  | Professor, Washington University   | Y  |
| 59             | 1989        | Michael Kahn                   | Automated interpretation of diabetes patient data using numeric and symbolic techniques | Adjunct Professor, Washington University   | N  |
| 60             | 1989        | J. Mark Petrash                | Aldose reductase gene expression in diabetes  | Professor, Washington University   | Y  |
| 61             | 1989        | Kenneth S. K. Tung             | Autoimmune polyendocrinopathy and insulinitis   | Professor, University of Virginia  | Y  |
| 62             | 1990        | Frederick T. Fiedorek          | Gene targeting of mouse glucose transporter genes through homologous recombination      | Scientist, Bristol Meyers/Squibb   | Y  |
| 63             | 1990        | David Parkinson                | Biosynthesis and regulation of carboxypeptidase h in human pancreatic islets            | Professor, Sheffield Hallam University   | Y  |
| 64             | 1990        | Julio E. Perez; Janet B McGill | Detection of myocardial physical alterations in diabetes                                | Professor, Washington University; Professor, Washington University                 | Y  |
| 65             | 1990        | Charles Canter                 | Cardiovascular structure and function in the diabetic child                             | Professor, Washington University   | Y  |
| 66             | 1991        | Stuart Adler                   | Negative transcriptional regulation by steroid analogues                                | Professor, Virginia Commonwealth University  | N  |
| 67             | 1991        | David Gottlieb                 | Regulation of GAD gene expression in pancreatic beta cells                              | Professor, Washington University   | Y  |

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|----------------|-------------|---------------------|--|---|--|
| 68             | 1991        | Kathleen Sheehan    | Role of tumor necrosis factor-alpha in prolongation of islet xenograph survival  | Research Assistant Professor, Washington University | N  |
| 69             | 1991        | Sandra Hale         | Effects of IDDM on processing speed, working memory, and cognition   | Associate Professor, Washington University          | Y  |
| 70             | 1992        | Joseph J Billadello | Post-transcriptional regulation of expression of plasminogen activator inhibitor type-1 mRNA by insulin and insulin-like growth factor-1 | Associate Professor, Washington University          | N  |
| 71             | 1992        | Suzanne Craft       | A neuro-ontogenetic model of cognitive impairment in IDDM  | Professor, University of Washington                 | Y  |
| 72             | 1992        | Colin G Nichols     | Expression cloning of pancreatic K <sup>+</sup> channels by complementation of K <sup>+</sup> deficient transport in yeast               | Professor, Washington University                    | Y  |
| 73             | 1993        | Lucian V Del Priore | Laser-induced biochemistry of retinal pigment epithelium   | Associate Professor, Columbia University            | Y  |
| 74             | 1993        | James W Grant       | Genetics of superoxide dismutase in diabetic complications   | Physician   | N  |
| 75             | 1993        | Yukitoshi Izumi     | Effects of hypoglycemic conditions of the hippocampus  | Research Associate Professor, Washington University | Y  |
| 76             | 1993        | Maurine Linder      | Regulation of G proteins by palmitoylation   | Professor, Washington University                    | Y  |
| 77             | 1993        | Anthony Kulczycki   | Etiology of IDDM: Which cow's protein is the primary antigen?  | Associate Professor, Washington University          | N  |

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|----------------|-------------|-----------------------------|--|---|--|
| 78             | 1994        | Eric Beyer;Thomas Steinberg | Intracellular communication and islet function   | Professor, University of Chicago;<br>Associate Professor, Washington University | Y  |
| 79             | 1994        | Stuart Kupfer               | Interaction of androgen and glucocorticoid receptors with insulin degrading enzyme   |   | N  |
| 80             | 1994        | Gabriel Waksman             | Determination of the 3-D structure of the SH2 domains of proteins involved in insulin-mediated signal transduction in a complex with their cognate phosphopeptides | Professor, University of London   | Y  |
| 81             | 1994        | Wendy Kohrt                 | Inhibition of lipolysis by insulin in abdominal obesity  | Professor, University of Colorado Health Sciences Center                        | Y  |
| 82             | 1995        | Frederick Lindberg          | IAP/CD47 in a murine model of autoimmune diabetes  |   | Y  |
| 83             | 1995        | Bess A Marshall             | Gene therapy for diabetes mellitus in mice   | Associate Professor, Washington University                                      | Y  |
| 84             | 1995        | John W Newcomer             | Insulin regulation of memory performance during normal ageing  | Professor, Washington University  | Y  |
| 85             | 1996        | Jonathan Katz               | Role of CD4+ T cells in autoimmune diabetes  | Associate Professor, University of Cincinnati                                   | Y  |
| 86             | 1996        | Louis Muglia                | Hormonal regulation of labor   | Professor, Washington University  | Y  |
| 87             | 1996        | Nader Sheibani              | Expression of thrombospondins in retinal capillaries   | Associate Professor, University of Wisconsin                                    | Y  |

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|----------------|-------------|---------------------|---|--|--|
| 88             | 1996        | Philip D Stahl      | The role of low molecular weight GTPases in Glut4 translocation   | Professor, Washington University   | Y  |
| 94             | 1997        | Jeffrey E Johnson   | Effects of achilles tendon lengthening procedure on patients with diabetes and recurrent forefoot neuropathic ulcers: Controlled clinical trial | Associate Professor, Washington University   | Y  |
| 95             | 1997        | Chris Lingle        | The role of inactivating BK channels in the electrical behavior of beta cells   | Professor, Washington University   | Y  |
| 96             | 1997        | Christine H. Lorenz | Ventricular torsion in diabetic cardiomyopathy  | Scientist, Siemens   | Y  |
| 97             | 1997        | Kelle H Moley       | BAX expression and apoptosis in blastocysts from diabetic mice  | Professor, Washington University   | Y  |
| 98             | 1998        | Perry E Bickel      | S3-12 function and adipocyte physiology   | Assistant Professor, Washington University   | Y  |
| 99             | 1998        | James Cheverud      | Genetic analysis of NIDDM-related traits in the LG/J and SM/J mouse strains   | Professor, Washington University   | Y  |
| 100            | 1998        | Thomas A. Ferguson  | The role of FAS ligand in diabetic retinopathy  | Associate Professor, Washington University   | Y  |
| 101            | 1998        | Michael A. Harris   | Home-based psychosocial treatment for youths w/ diabetes  | Director Child Development & Rehabilitation Center Oregon Health Sciences University | Y  |
| 102            | 1998        | Margaret Perkinson  | Diabetes symptom management by family caregivers  | Research Associate, Washington University  | N  |
| 103            | 1998        | Samuel Dagogo-Jack  | Regulation of leptin in humans  | Professor, University of Tennessee   | Y  |
| 104            | 1999        | Thomas J Baranski   | G protein-coupled receptors in pancreatic beta cells  | Assistant Professor, Washington University   | Y  |
| 105            | 1999        | Valerie S Ratts     | The Impact of reducing hyperinsulinemia in PCOS patients undergoing ovulation induction   | Associate Professor, Washington University   | Y  |



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| 106            | 1999        | David B Wilson      | Role of GATA-binding proteins in pancreatic gene expression and development | Associate Professor, Washington University          | Y  |
| 107            | 2000        | Keith A Hruska      | The role of BMP-7 in chronic renal disease                                  | Professor, Washington University                    | Y  |
| 108            | 2000        | Joseph C Koster     | Insulin secretory defects in KATP-induced diabetes                          | Research Assistant Professor, Washington University | Y  |
| 109            | 2000        | Jeff F Moley        | SLC2A9, A candidate ER glucose transporter                                  | Professor, Washington University                    | Y  |
| 110            | 2000        | Burton M Wice       | Insulin-producing enteroendocrine cells for gene therapy                    | Research Assistant Professor, Washington University | Y  |
| 111            | 2000        | Xiaoming Xia        | Genetic dissection of BK channels' roles in beta cells                      | Research Assistant Professor, Washington University | Y  |
| supp1          | 2001        | Burton Wice         | Transplantation of modified gut stem cells to treat T1DM                    | Research Assistant Professor, Washington University | Y  |
| supp2          | 2001        | Shin-ichiro Imai    | Function of mammalian Sir2 $\alpha$ in beta cell differentiation            | Assistant Professor, Washington University          | Y  |
| supp3          | 2001        | Kelvin Yamada       | Hypoglycemia in the developing diabetic brain                               | Associate Professor, Washington University          | Y  |
| 112            | 2001        | Robert Arch         | CD30-induced signaling events in autoimmune diabetes                        | Scientist, Pfizer                                   | Y  |
| 113            | 2001        | Talal Chitila       | Molecular basis of X-Linked neonatal type 1 diabetes                        | Professor, UCLA                                     | Y  |
| 114            | 2001        | Timothy Graubert    | A Murine Model of Somatic Stem Cell Therapy for Diabetes                    | Assistant Professor, Washington University          | Y  |
| 115            | 2001        | Paul Hruz           | Site-Directed Spin Labeling of GLUT1  | Assistant Professor, Washington University          | Y  |

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|----------------|-------------|-------------------------|---|---|--|
| 116            | 2001        | Lorraine A. Nolte       | Withdrew-left university                                  |   | Y  |
| 117            | 2001        | Subramaniam Pennathur   | Oxidative stress in diabetics after renal transplantation | Assistant Professor, University of Michigan                             | Y  |
| 118            | 2001        | Jean Schaffer           | Withdrew-alternate funding                                | Associate Professor, Washington University                              | Y  |
| 119            | 2001        | Mario Schootman         | Geographic variation of amputations                       | Assistant Professor, Washington University                              | Y  |
| 120            | 2001        | Tamara Hershey          | Withdrew-alternate funding                                | Assistant Professor, Washington University                              | Y  |
| 121            | 2002        | Alejandro M Barbieri    | Role of RIN1 in beta-cell insulin receptor signaling      | Assistant Professor, Florida International University                   | Y  |
| 122            | 2002        | David M Kurtz           | PPARgamma in hepatic and cardiac lipid metabolism         | Veterinarian, US Env. Protection Agency,                                | N  |
| 123            | 2002        | Theodore C Simon        | MODY factors defective in cooperative gene action         | Associate Director, Genetically Modified Animal Program, Wyeth Research | Y  |
| 124            | 2003        | Rajendra S Apte         | Immune mechanisms in diabetic retinopathy                 | Assistant Professor of Medicine, Washington University                  | Y  |
| 125            | 2003        | Ernesto Bernal-Mizrachi | Regulation of pancreas development by PI3K/Akt signaling  | Assistant Professor of Medicine, Washington University                  | Y  |
| 126            | 2003        | Kyunghee Choi           | Pancreatic islet beta stem/progenitors                    | Associate Professor, Washington University                              | N  |
| 127            | 2003        | Jan Huss                | Role of ERR orphan receptors in diet-induced diabetes     | Assistant Professor, City of Hope National Medical Center               | Y  |
| 128            | 2003        | Ellen Li                | Effect of HIV and protease inhibitors and adipocytes      | Professor, Washington University  | Y  |

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|----------------|-------------|-----------------------|--|---|--|
| 129            | 2003        | Xin Yu                | Ventricular remodeling in diabetic cardiomyopathy                    | Associate Professor, Case Western Reserve                           | Y  |
| 130            | 2004        | Jeffrey Arbeit        | HIF-1alpha modulation of diabetic wound healing                      | Professor, Washington University                                    | Y  |
| 131            | 2004        | Thomas Baranski       | Multi-system screens of diabetes and glucose toxicity                | Assistant Professor, Washington University                          | Y  |
| 132            | 2004        | Simon Fisher          | Glucose toxicity and brain insulin resistance                        | Assistant Professor, Washington University                          | Y  |
| 133            | 2004        | Jason Mills           | Gene expression in laser-captured diabetic islet cells               | Assistant Professor, Washington University                          | Y  |
| 134            | 2004        | Colin Nichols         | KATP channel-dependent diabetes                                      | Professor, Washington University                                    | Y  |
| 135            | 2004        | Matthew Silva         | Bone quality and fatigue resistance in diabetes                      | Associate Professor, Washington University                          | Y  |
| 137            | 2005        | Carlos Bernal Mizrahi | Vitamin D deficiency, insulin resistance and cardiovascular disease  | Assistant Professor, Washington University                          | Y  |
| 138            | 2005        | Ana Maria Arbelaez    | Treatment of pre-diabetes in patients with cystic fibrosis           | Instructor, Washington University                                   | Y  |
| 139            | 2006        | Peter Crawford        | Role of the gastrointestinal microbiota in cardiovascular physiology | Instructor, Washington University                                   | Y  |
| 140            | 2006        | Sharon Cresci         | PPAR infarction LV remodeling  | <input type="checkbox"/> Assistant Professor, Washington University | Y  |
| 141            | 2006        | Tamara Hershey        | Pilot fMRI of hippocampal function in T1DM                           | Assistant Professor, Washington University                          | Y  |
| 142            | 2006        | Joan Riley            | Uterine NK cells and reproductive failure in the diabetic mouse      | Instructor, Washington University                                   | Y  |

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|----------------|-------------|----------------------|---|---|--|
| 143            | 2006        | Richard Stein        | Family lifestyle intervention program for overweight youth                        | Assistant Professor, Washington University          | Y  |
| 144            | 2006        | Michael Elliott      | Environmental correlates of diabetes risk behaviors among urban African Americans | Assistant Professor, St. Louis University           | Y  |
| 145            | 2007        | Matteo Levisetti     | Autoreactive T cells in patients with type 1 diabetes                             | Senior Director, Clinical Research at Pfizer        | Y  |
| 146            | 2007        | Latisha Love-Gregory | CD36 and GNAT3 as candidate genes for insulin resistance                          | Assistant Professor, Washington University          | Y  |
| 147            | 2008        | Mary Markiewicz      | Role of NKG2D in autoimmune diabetes  | Assistant Professor, University of Kansas           | Y  |
| 148            | 2008        | Kevin Yarasheski     | Human atherosclerotic plaque inflammation imaged using FDG-PET/CT                 | Professor, Washington University                    | Y  |
| 149            | 2008        | Amy Waterman         | Understanding racial disparities in ESRD patients with and without diabetes       | Associate Professor, UCLA                           | Y  |
| 150            | 2008        | Junjie Chen          | MRI biomarker of retinal edema in diabetic retinopathy                            | Instructor, Washington University                   | Y  |
| 151            | 2009        | Guojun Bu            | Lipoprotein receptor LRP1 in leptin receptor signaling and obesity                | Professor, Mayo Clinic                              | Y  |
| 152            | 2009        | Charlene Caburnay    | Newspaper coverage of diabetes and African Americans' reporting preferences       | Research Assistant Professor, Washington University | Y  |
| 153            | 2009        | Peter Crawford       | Effects of the ketogenic milieu in diabetic cardiomyopathy                        | Associate Professor, Sanford Burnham                | Y  |
| 154            | 2009        | Stanley Misler       | Granule pool for second phase insulin secretion                                   | Associate Professor, Washington University          | N  |
| 155            | 2009        | Linda Peterson       | Reversal of diabetic cardiomyopathy   | Associate Professor, Washington University          | Y  |
| 156            | 2009        | Lihong Wang          | Photoacoustic imaging of diabetic wound imaging                                   | Professor, Washington University                    | Y  |

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|----------------|-------------|----------------------------|---|--|--|
| 157            | 2010        | Jennifer Duncan            | Nutritional programming of metabolic disease  | Assistant Professor, Washington University | Y  |
| 158            | 2010        | Shin-ichiro Imai           | The pathophysiological importance and therapeutic potential of NAMPT-mediated NAD biosynthesis in type 2 diabetes | Professor, Washington University           | Y  |
| 159            | 2010        | Christopher Lingle         | Endocrine cell BK channels and blood sugar regulation   | Professor, Washington University           | Y  |
| 160            | 2010        | Maria Remedi               | Modeling developmental delay epilepsy and neonatal diabetes DEND syndrome in mice                                 | Assistant Professor, Washington University | Y  |
| 161            | 2010        | James Skeath               | Genetic identification of factors that govern metabolic regulation in Drosophila                                  | Professor, Washington University           | Y  |
| 162            | 2011        | Abhinav Diwan              | Intermittent fasting as a strategy to treat diabetes  | Assistant Professor, Washington University | Y  |
| 163            | 2011        | Jeffrey Henderson          | Identification of metabolic factors predisposing to diabetes-associated infection                                 | Assistant Professor, Washington University | Y  |
| 164            | 2011        | Irfan Lodhi                | Regulation of adipose tissue development and metabolic homeostasis  | Assistant Professor, Washington University | Y  |
| 165            | 2011        | Laura Musselman (Palanker) | The roles of nuclear hormone receptor signaling in a Drosophila model of diet-induced type 2 diabetes             | Assistant Professor, Binghamton University | Y  |
| 166            | 2011        | Xiong Su                   | Adipocyte-derived exosomes: regulation and metabolic functions  | Assistant Professor, Washington University | Y  |
| 167            | 2012        | Jan Bieschke               | Molecular mechanism of AD and type II diabetes co-pathology   | Assistant Professor, Washington University | Y  |
| 168            | 2012        | Brian Edelson              | Role of GM-CSF in type 1 diabetes   | Assistant Professor, Washington University | Y  |
| 169            | 2012        | Scot Matkovich             | MicroRNA-directed signaling in hyperglycemic and hyperlipidemic beta-cells  | Assistant Professor, Washington University | Y  |

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| 170            | 2012        | Jeanne Nerbonne           | Molecular mechanisms underlying altered excitability in diabetic cardiomyopathy  | Professor, Washington University           | Y  |
| 171            | 2012        | Jun Yoshino               | Regulation of systemic insulin sensitivity by adipose NAMPT  | Assistant Professor, Washington University | Y  |
| 172            | 2013        | Charles Harris            | GR post-translational modification in adipogenesis and adipocyte function  | Assistant Professor, Washington University | Y  |
| 173            | 2013        | Jason Held                | Thiolproteomic characterization of in vivo cysteine redox sensors in diabetes  | Assistant Professor, Washington University | Y  |
| 174            | 2013        | Joel Schilling            | Macrophage PPAR gamma as a regulator of ischemic cardiac remodeling  | Assistant Professor, Washington University | Y  |
| 175            | 2014        | Boris Calderon            | Tracing the ontogeny and turnover rate of islet resident macrophages   | Assistant Professor, Washington University | Y  |
| 176            | 2014        | Brian Finck               | Mitochondrial pyruvate transport and beta cell function  | Assistant Professor, Washington University | Y  |
| 177            | 2014        | Simon Haroutounian        | Predicting individual response to analgesic treatment in painful diabetic neuropathy and improving nonverbal assessment of pain relief | Assistant Professor, Washington University | Y  |
| 178            | 2014        | Colin Nichols             | Zebrafish model of excitability-driven diabetes  | Professor, Washington University           | Y  |
| 179            | 2014        | M. Yanina Pepino de Gruev | Metabolic effects of non-nutritive sweeteners  | Assistant Professor, Washington University | Y  |
| 180            | 2015        | Alison Cahill             | Choline Metabolomics in Diabetic Pregnancy   | Associate Professor, OBGYN                 | Y  |
| 181            | 2015        | Andrew Coggin             | Dietary Nitrate-A Novel Treatment for Patients With Diabetes and Heart Failure   | Assistant Professor, Radiology             | Y  |
| 182            | 2015        | Jeffrey Millman           | Improved Differentiation of Human Stem Cells to Beta Cells with Oxygen Control   | Assistant Professor, Medicine              | Y  |

Table 1 Pilot &amp; Feasibility Program

Principal Investigator/Program Director: Schaffer, Jean E

| <b>Project</b> | <b>Year</b> | <b>Investigator</b> | <b>Title</b>  | <b>Present Position</b>       | <b>Publishing in Diabetes and Metabolism</b> |
|----------------|-------------|---------------------|---|-------------------------------|--|
| 183            | 2015        | Babak Razani        | Use of a Novel Sugar to Treat Obesity and Diabetes                            | Assistant Professor, Medicine | Y  |
| 184            | 2015        | Dmitri Samovski     | Regulation of Insulin and AMPK Signaling by Saturated Fatty Acids             | Instructor, Medicine          | Y  |
| 185            | 2015        | Mohammed Zayed      | N-Acetyl-Cysteine for Healing of Amputation Stumps in the Setting of Diabetes | Assistant Professor, Surgery  | Y  |