

## CURRICULUM VITAE

October 21, 2016

### NAME:

**Mark Alvin Atkinson, Ph.D.**

American Diabetes Association Eminent Scholar  
Department of Pathology, Immunology and Laboratory Medicine  
College of Medicine  
University of Florida  
1275 Center Drive, BMS J593  
Gainesville, FL 32610-0275  
(352) 273-8276  
atkinson@ufl.edu

### EDUCATION:

University of Michigan-Dearborn, B.S., Microbiology	1979 - 1983
Pennsylvania State University, Hershey Medical Center	1983 - 1984
Hagedorn Research Laboratory, Gentofte, Denmark	1986
University of Florida, Ph.D., Department of Pathology	1984 - 1988

### ACADEMIC APPOINTMENTS:

Post-Doctoral Associate, Department of Pathology, University of Florida	1988 - 1990
Assistant Professor, Department of Pathology, University of Florida	1990 - 1994
Associate Professor / Tenure, Department of Pathology, University of Florida	1994 - 1999
Director, The Center for Immunology and Transplantation	1998 - 2006
Sebastian Family Professor for Diabetes Research	1998 - 2007
Professor, Department of Pathology, University of Florida	1998 - present
Co-Director, Diabetes Center of Excellence	2000 - 2014
Eminent Scholar, University of Florida	2003 - present
Jeffrey Keene Family Professor	2004 - present
American Diabetes Association Eminent Scholar for Diabetes Research	2007 - present
Director, University of Florida Diabetes Institute	2014 - present

## **AREAS OF SPECIALIZATION:**

Dr. Atkinson is currently the American Diabetes Association Eminent Scholar for Diabetes Research, and the Jeffrey Keene Family Professor at The University of Florida. He also is Director of the new University of Florida Diabetes Institute. The author of over 350 publications, Dr. Atkinson is now in his 30th year of investigation into the field of type 1 diabetes (T1D). Dr. Atkinson has been the recipient of multiple scientific and humanitarian based awards for these efforts. Those include three from the Juvenile Diabetes Research Foundation (JDRF). The first was the Gerold and Gayla Grodsky award (2001) provided to the outstanding Ph.D. investigating type 1 diabetes. He is a three-time recipient of the Mary Tyler Moore & S. Robert Levine M.D. award for translational research on type 1 diabetes (2004, 2008, 2015). He was also the recipient of the JDRF's David Rumbough award for contributions to diabetes research (2005). Dr. Atkinson was also a recipient of the prestigious Eli Lilly Award for Outstanding Scientific Achievement from the American Diabetes Association (ADA; 2004). He also received the Barbara Davis Award for contributions to the field seeking to prevent type 1 diabetes. Dr. Atkinson has been active in a leadership service to the T1D community, with active administrative or advisory service to JDRF, ADA, The National Institutes of Health (NIH), The Immunology of Diabetes Society (IDS), and a variety of companies from the pharmaceutical and biotech industry. Dr. Atkinson is a past Chair for Medical Science Research at the JDRF wherein he oversaw professional research review of nearly \$100M in annual funding (FY 2003-2005). He has served on the state, regional, as well as the national Board of Directors for the ADA, as well as past-memberships on their publications, scientific sessions planning, research review committees. He is an immediate past Associate Editor of the ADA's Journal Diabetes and currently serves as Ad hoc Editor in Chief for both *Diabetes* and *Diabetes Care*. He has Chaired two National Expert Panels formed by the NIH giving guidance to diabetes research as well as the congressionally awarded, special funding for T1D. Dr. Atkinson is an internationally recognized authority on multiple aspects pertaining to T1D, with particular interests in disease prediction and prevention, the role for environment in the initiation of the disease, stem cells and pancreatic regeneration, identifying markers of tolerance and immunoregulation, and the identification of biological agents as a means to cure the disease and prevent its complications. Indeed, Enterscapse (an organization that tracks scientific citations of researchers) noted that Dr. Atkinson was the second most cited authority of over 65,000 investigators in the world in all categories of diabetes, both type 1 and type 2. Dr. Atkinson is a founding member of the now 15-year-old, NIH Immune Tolerance Network; amongst only a handful of members whose institutions are located within the Southeastern United States. In terms of clinical trials expertise, he is a member of the NIH TrialNet as well as a founding member of the Helmsley Trust Consortium on Type 1 Diabetes; both providing guidance to trials aimed at reversing T1D. Dr. Atkinson is the founding Director of the JDRF Network for Pancreatic Organ donors with Diabetes (nPOD) program, a position where he currently oversees the scientific progress of some 187 projects (19 countries) directed at numerous aspects of the disease. This is but one example of many multi-investigator/multi-institutional efforts overseen by Dr. Atkinson; other examples including but not limited to Directorship of the JDRF Gene Therapy Center at the University of Florida & University of Miami, 20 years of leading an NIH PO1 directed at understanding immune regulation in T1D, and the JDRF Center for Cord Blood Therapies. Beyond this, he serves as Steering Committee Chair for the Trans Network Committee for the Human Islet Research Network (HIRN) as well as Chair for the Consortium on Beta Cell Death and Survival for that effort. His interest in collaboration has driven his participation in a variety of organizations (e.g., the Brehm Coalition, the Helmsley Trust Type 1 Diabetes Centers) and technologies (e.g., nPOD Datashare) are representative examples of that interest. Finally, Dr. Atkinson is active at a global level for causes related to the care and treatment of those in the third world; especially and including persons with T1D. For this cause, he serves as President of Insulin for Life USA, and is an Advisor to Life for a Child.

## **CONTRIBUTION TO DISCIPLINE (PERSONAL STATEMENT):**

When a first year graduate student at The University of Florida in 1984, my Mentor provided words of advice that remain a major part of my academic life. In a conversation regarding what areas would form the best focus for a research career in T1D, he responded, "If you pursue three avenues of investigation and find out their answers, you will make a valuable contribution to type 1 diabetes (sic)". Those recommended efforts were to:

- Determine what causes type 1 diabetes.
- Identify a means to predict, months to years in advance, who will develop the disease.
- Develop a method to cure type 1 diabetes.

Now some 30 years later, with both a sense of happiness and sadness, I can say that these three avenues remain a major focus of my research efforts. Happiness, in that progress has been made by the research community (with some contributions from my research group and collaborators) towards each goal, but at the same time none have been fully addressed. Indeed, progress towards each goal differs quite dramatically. For example, we and others have, to a large extent, developed a means to predict in a population of individuals who is likely to develop T1D. This is a major

goal (a method to prevent or cure the disease), efforts for disease prediction have been somewhat underutilized by the public health care community. That said, we are moving closer (and leading efforts) towards testing of agents capable of effectively intervening in the disease which leaves open the discussion of progress towards the first goal, understanding what causes the disorder. Sadly, of all the goals, this one remains the most elusive. Perhaps in part because of this state of progress, I have expanded my efforts to seeing insulin provided to those in third world areas as while not a cure, it does represent a life-saving entity.

<b>COMMITTEES:</b>	Medical Science Review Committee, Juvenile Diabetes Foundation	1991 - 2010
	Doctoral Faculty Member, University of Florida	1991 - present
	Graduate Education Committee, Department of Pathology, University of Florida	1991 - 1997
	Ad Hoc Grant Review Panel, United States Veterans Administration	1991 - present
	Vice-Chair, Professional Relations and Standards Committee, University of Florida	1991 - 1992
	Ad Hoc Grant Reviewer, Diabetes Research & Education Center, University of Michigan	1992
	Research Advisory Council, College of Medicine, University of Florida	1992 - 1995
	Public Relations and Communications Committee, Juvenile Diabetes Research Foundation	1993 - 2011
	Reviewer, National Institutes of Health, NIAID & NIDDK, Ad Hoc	1993 - present
	Graduate Program Director, Department of Pathology, University of Florida	1994 - 1997
	Office of Graduate Research and Education Advisory Council, University of Florida	1994 - 1997
	Office of Technology Licensing, Advisory Committee, University of Florida	1994 - 1996
	Medical Sciences Review Committee, Juvenile Diabetes Research Foundation	1994 - 1999
	Executive Committee, American Diabetes Association, Florida	1994 - 1997
	Executive Member, College of Medicine Reorganization Committee, University of Florida	1995 - 1996
	Director, Graduate Program in Immunology & Microbiology, College of Medicine, University of Florida	
	Medical Research Council of Canada, Review Committee	1996 - 1998
	Director, The Center for Immunology and Transplantation, College of Medicine, University of Florida	1996 - 2006
	Graduate Education Advisory Committee, College of Medicine, University of Florida	1996 - 1998

Director, Recruiting & Admissions Committee, Interdisciplinary Graduate Research Program, College of Medicine, University of Florida	1997
Grant Review Committee, American Diabetes Association	1997 - 1999
Co-Chair, Medical Sciences Review Committee (Group 1), Juvenile Diabetes Foundation International	1997 - 1999
Executive Committee, South Coastal Region, American Diabetes Association	1997 - 2000
Research Advisory Board, Juvenile Diabetes Research Foundation	1997 - 2001
T Cell Workshops Committee, Immunology of Diabetes Society (IDS)	1998 - 2004
Executive Board, Immunology of Diabetes Society (IDS)	1998 - 2001
Board of Directors, American Diabetes Association (National)	1999 - 2002
Clinical Affairs Committee, Juvenile Diabetes Research Foundation	1999 - 2001
Publications Committee, American Diabetes Association	2000 - 2002
Scientific Advisory Board, Islet Cell Transplantation Center, Harvard University	1999 - 2000
Professorial Tenure and Promotions Committee, College of Medicine, University of Florida	1999 - 2001
Chair, Immunology and Transplantation Review, Juvenile Diabetes Research Foundation	2000 - 2002
Council on Immunology and Ligand Standardization, NCCLS	2000 - 2003
Scientific Advisory Board, University of Pittsburgh Gene Therapy Center	2002 - 2007
University of Florida / Shands Cancer Center, member	2002 - present
Research Policy Committee, American Diabetes Association	2002 - 2003
Research Executive Committee, Juvenile Diabetes Foundation International	2002 - 2006
Executive Scientific Research Committee, Immune Tolerance Network	2001 - present
Human Stem Cell Research Policy Committee, Juvenile Diabetes Research Foundation	2002 - 2005
Clinical Affairs Advisory Committee, Juvenile Diabetes Research Foundation	2002 - 2005
Expert Member, NIH NIAID Autoimmunity Council	2002 - 2003
Chair, Laboratory Monitoring Group, NIH TrialNet	2002 - 2005
International Advisory Board, Universita' Campus Bio-medico Di Roma	2002 - 2008
Chair, Medical Science Review Committee, Juvenile Diabetes Research	2003 - 2005

## Foundation

Council Chair, Section on Immunology, Immunogenetics, and Transplantation, American Diabetes Association	2003 - 2005
Planning Committee Member, Rachmiel Levine Symposium	2003 - 2008
Scientific Advisory Board Member, Entelos/ADA In Silico Models for Type 1 Diabetes	2003 - 2008
Scientific Sessions Planning Committee, American Diabetes Association	2003 - 2005
NIH Conference on "GAD and Autoimmune Disease", Conference Organizer	2004
EASD/JDRF Meeting on Type 1 Diabetes Prevention, Oxford University, Conference Co-organizer	2004
Laboratory Monitoring Group, NIH TrialNet	2005 - 2008
Scientific Advisor, NIH/NIDDK Conference on Statutory Funding for Type 1 Diabetes	2005, 2008
Sample Access Review Panel, NIDDK Central Repositories	2005 - 2008
External Advisory Board Member, Wellcome Trust / JDRF Center on Genetics of Type 1 Diabetes	2005 - 2010
Member, NIDDK Group B (Training) Review	2005 - 2007
Chair, NIH Workgroup on Special Statutory Funding for Type 1 Diabetes Research, NIDDK	2005 - 2006
Member, Brehm Coalition for Type 1 Diabetes	2006 - present
External Advisor, Columbia University Diabetes Center	2006 - 2007
Genzyme Scientific Advisory Committee, Type 1 Diabetes	2006 - 2011
Chair, JDRF Expert Panel on Special Statutory Funding for Type 1 Diabetes Research	2006 - 2007
Member, T1D RAID/Biomedical Research Models Advisory Panel	2006 - 2010
Meeting Co-Organizer, NYAS: Animal Models of Type 1 Diabetes and Multiple Sclerosis	2006
Executive Director, JDRF nPOD	2007 - present
Co-Chair, 9 <sup>th</sup> International Meeting of the Immunology of Diabetes Society	2007
Member, Clinical Affairs work group (CAWG), JDRF	2007 - 2009
University of Florida HHMI program professor	2007 - 2014

Member, Diabetes Advisory Board, Glaxo-Smith Kline	2008 - 2009
Member, Organizing Committee, Rachmael Levine Symposium	2008 - 2010
Member, JDRF Autoimmunity Centers of Excellence Group	2008 - 2012
Chair, Diabetes Advisory Committee for Special Program Funding, NIH	2008
Chair and Organizer, JDRF Advisory Meeting on the Role of MSC Therapies in Type 1 Diabetes	2008
Member, Type 1 Diabetes Advisory Committee, Sanford Health	2008 - 2010
Member, University of Florida Genetics Institute	2008 - present
Member, Helmsley Trust Type 1 Diabetes Advisory Board	2009 - 2012
Member, Scientific Advisory Board, Tolorex	2009 - 2010
Member, Joslin Diabetes Medalist Program Advisory Panel	2009
Member, T1D Exchange Advisory Committee	2010 - -2011
Chair and Orgnizer, FOCIS Special Meeting on the Use of Human Tissues in Type 1 Diabetes Research	2010
International Ambassador/Advisor, Life for a Child (IDF)	2010 - present
Chair, JDRF Microbiome Consortium	2010 - 2014
Chair, NIH TrialNet Primorization Commiee	2010 - 2014
Member, NIH TrialNet Ancillary Studies Committee	2010 - 2014
Member, JDRF "Blue Ribbon" External Advisory Panel	2011 - 2012
Chair and Organizer, JDRF Meeting on Lessons Learned from Clinical Trials in Type 1 Diabetes (Lisbon)	2011
NIH Beta Cell Biology Consortium (BCBC) External Evaluation Committee Member	2011 - 2014
Section Editor, Type 1 Diabetes, <i>Diapedia</i>	2011 - present
Lead Investigator and Committee Chair, Use of TSO to Prevent Type 1 Diabetes, NIH TrialNet	2011 - 2013
Member, Diabetes Advisory Board, Takeda Pharmaceuticals	2012 - 2013
Member, Diabetes Advisory Board, Grifols Pharmaceuticals	2012 - 2013
Member, Diabetes Advisory Board, Sanofi Pharmaceuticals	2012 - 2014
Member, NIH ITN/JDRF Preclinical Models Consortium	2012 - present
President and Board Chair, Insulin for Life USA	2012 - present

Member, NIDDK Group B (Training) Review	2012 - 2015
Member, The Lancet Commission on Type 1 Diabetes	2013 - present
Member, International Diabetes Federation Insulin Task Force	2013 - 2014
Ad hoc Editor-in-Chief, <i>Diabetes</i>	2013 - present
Member, Broad Institute Scientific Advisory Committee	2013 - 2014
Ad hoc Editor-in-Chief, <i>Diabetes Care</i>	2014 - present
Member, ACCISS Advisory Group on Global Insulin Access	2013 - present
Director, University of Florida Diabetes Institute Executive Committee	2014 - present
Member, NIH TrialNet Biomarkers Working Group	2014 - present
Chair, JDRF Open Access Data Working Group	2014 - present
Chair, Trans Network Committee, Human Islet Research Network	2014 - present
Chair, Consortium on Death cell Death and Survival (CDBS), Human Islet Research Network	2014 - present
Member, Mechanistic Outcomes Committee, NIH TrialNet	2014 - present
Director, nPOD-H (Heterogeneity) Working Group	2015 - present
<b>TEACHING:</b> Discussion group leader in the medical student (phase B) <i>Medical Immunology course</i>	1990 - 2001
Lecturer in GMS 6140, <i>Principles of Immunology</i>	1993 - 1997
Director/Lecturer, GMS 6646, <i>Experimental Pathology and Immunology</i>	1993 - 1997
Director/Lecturer, GMS 7920, Colloquium in Experimental Pathology and Immunology	1993 - 1997
Director/Lecturer, GMS 6381, <i>Advanced Topics in Immunology</i>	1993 - 1997
Director/Lecturer, GMS 6921, Immunology/Microbiology Journal Colloquy	1993 - 1997
Director/Lecturer, GMS 6032, <i>Mechanisms of Host Defense</i>	1997 - 1998
Lecturer in the medical student (phase B) <i>Pathology course</i>	1997 - 2000
Lecturer in GMS 6390, <i>Seminar in Pathology</i>	1997 - 1999
Lecturer in DEN 6350, <i>Dental Pathology</i>	1997 - 2000
Lecturer in GMS 6033, Autoimmunity, Transplantation Immunology	2000 - 2004
Advanced Immunology	2000 - 2007

Additional service includes positions on numerous Graduate and Medical Education committees, and primary research mentoring of 13 post-doctoral fellows, 17 Ph.D trainees, and 6 M.S. students (as of 5/2015)

**HONORS AND AWARDS:**

Division of Sponsored Research Award, University of Florida	1986
Medical Guild Research Award for Graduate Research, University of Florida	1987
Post-Doctoral Fellowship, Juvenile Diabetes Research Foundation	1988
Post-Doctoral Fellowship (Mentor Based), American Diabetes Association	1988
Research Development Award (CDA), American Diabetes Association	1990
National Institutes of Health FIRST Award	1992
Diabetes Research and Education Foundation Award	1992
Career Development Award, Juvenile Diabetes Association	1993
The University of Florida, Pew Scholar Nominee	1993
Partners for a Cure Award, American Diabetes Association (Florida)	1996
Mary Jane Krugal Research Award, Juvenile Diabetes Research Foundation	1997
Sebastian Family / American Diabetes Association Endowed Chair	1998
Elected Executive Board Member, Immunology of Diabetes Society	1998
University of Florida Research Foundation Professorship	1998
Mary Jane Krugal Research Award, Juvenile Diabetes Research Foundation	1999
Congressional Briefing on Type 1 Diabetes, United States Congress	1999
Named "Distinguished Faculty", Juvenile Diabetes Research Foundation	2000
Outstanding Research Achievement Award, American Diabetes Association (South Costal Region)	2000
Faculty Basic Science Research Award, College of Medicine, University of Florida	2001
Gerold & Kayla Grodsky Award for Major Contributions to Diabetes Research, Juvenile Diabetes Research Foundation	2003
Mary Jane Krugal Research Award, Juvenile Diabetes Research Foundation	2003



Distinguished Visiting Professor, Johns Hopkins University School of Medicine	2003
Mary Tyler Moore and S. Robert Levine Clinical Research Award, Juvenile Diabetes Research Foundation	2004
Eli Lilly Award for Outstanding Scientific Achievement, American Diabetes Association	2004
Hilborn Scholar, UCLA School of Medicine	2005
David Rumbough Award for Scientific Excellence, JDRF	2005
University of Florida Research Professor	2006
American Diabetes Association, Distinguished Service Award for serving as Chair of the Immunology, Immunogenetics, and Transplantation Council	2006
UF/ Howard Hughes Medical Institute undergraduate professor	2007
Mary Tyler Moore and S. Robert Levine Clinical Research Award, Juvenile Diabetes Research Foundation	2008
Cure Award, American Diabetes Association, for efforts seeking to reverse type 1 diabetes	2009
Exemplary Teacher Award, University of Florida, College of Medicine	2009
Honorary Lecturer (with Award), Edwin Gale Retirement event	2010
Service Award, American Diabetes Association, for efforts as Associate Editor of the journal Diabetes	2011
Davis Award, Children with Diabetes Foundation	2012
Julio Santiago Award, Washington University St. Louis	2014
Mary Tyler Moore and S. Robert Levine Clinical Research Award, Juvenile Diabetes Research Foundation	2015
Claes Hellerstrom Award, Upsalla, Sweden	2016

**REPRESENTATIVE DESCRIPTIONS OF MAJOR AWARDS:**

**The David Rumbough Award for Scientific Excellence** was established in 1974 by actress Dina Merrill in honor of her late son, David. JDRF presents this award annually to recognize sustained commitment and achievement in the field of diabetes research.

**The Gerold and Kayla Grodsky Award** was established by a gift from the Grodsky's made to JDRF in 1994. The award is presented annually to a Ph.D. researcher who has made outstanding contributions to the field of diabetes research.

**The Mary Tyler Moore and S. Robert Levine, M.D., Excellence in Clinical Research Award** was established by these individuals in 2002. The award is overseen by the Juvenile Diabetes Research Foundation

International and given in recognition of outstanding contributions to the clinical translation of diabetes research.

**The Outstanding Scientific Achievement Award** by the American Diabetes Association. The award, established in 1956 and often referred to as “the Lilly Award”, is given each year to recognize demonstrated research in the field of diabetes, taking into consideration originality and independence of thought. The sought-after award is presented to an individual medical researcher under age 45 who has made an outstanding contribution to diabetes research.

**The Davis Award**, provided at the Carousel of Hope Ball, was presented to Dr. Atkinson, by the Children’s Diabetes Foundation, in recognition of his long-standing efforts to identify a means to prevent type 1 diabetes.

**SOCIETY MEMBERSHIPS:**

American Diabetes Association	1986 - present
American Association for the Advancement of Sciences	1991 - present
Juvenile Diabetes Research Foundation	1992 - present
Immunology of Diabetes Society	1996 - present
American Society for Gene Therapy	2002 - 2006
Society for Experimental Diabetes Research	2004 - 2006
European Association for the Study of Diabetes	2004 - present
International Society for Pediatric and Adolescent Diabetes	2011 - present

**EDITORIAL:**

<i>Diabetes Countdown</i> – Editorial Board	1992 - 2010
<i>Diabetes</i> – Advisory Board	1995 - 1998
<i>Molecular Medicine</i> – Advisory Board	1999 - 2003
<i>Diabetes</i> – Advisory Board	2005 - 2011
<i>Diabetologia</i> – Advisory Board	2005 - 2008
<i>Diabetes</i> – Associate Editor	2006 - 2011
<i>Diabedia</i> – Section Editor (type 1 diabetes)	2011 - present
<i>Diabetes</i> – Ad hoc Editor-in-Chief	2013 - present
<i>Diabetes Care</i> – Ad hoc Editor-in-Chief	2014 - present
<i>Proceedings National Academy of Sciences USA</i> – Guest Editor	2015

Ad hoc reviewer for *Diabetes*, *Diabetes Care*, *The New England Journal of Medicine*, *The Journal of Clinical Investigation*, *Analytical Biochemistry*, *The Journal of Neurochemistry*, *Pancreas*, *Metabolism*, *Science*, *The Journal of Clinical Endocrinology and Metabolism*, *The Journal of Immunology*, *Nature* Ongoing

*Medicine, Nature, The Lancet, Clinical Chemistry, Diabetologia, Diabetes and Metabolism Reviews, Proceedings of The National Academy of Sciences U.S.A., Nature, Science Translational Medicine, The Lancet Diabetes and Endocrinology, Nature Reviews Diabetes and Endocrinology, Pediatric Diabetes, amongst many others.*

**CORPORATE  
CONSULTATION:**

Syntex Pharmaceuticals / SYVA Diagnostics	1993 - 1996
Diamyd Pharmaceuticals	1998 - present
Diabetogen	2000 - 2003
Sankyo Pharmaceuticals	2002 - 2006
Entelos	2004 - 2008
Elan/Wyeth Pharmaceuticals	2005 - 2008
Genzyme	2005 - present
Diakine Pharmaceuticals	2006 - 2010
Kinexum	2006 - 2008
Health Advances	2008 - present
Biomedical Research Models	2007 - 2011
Gerson Lehrman Group	2009 - present
Glaxo-Smith Kline	2009 - 2011
Amylin	2009 - 2011
Exsulin	2010 - 2012
Sanofi	2011 - 2013
Grifols	2011 - 2012
Takeda	2011 - 2013
Miromatrix Medical	2012 - 2014
Medistem	2012 - 2013
OneVax (co-founder)	2012 - present
SynAlpha Therapeutics	2014 - 2015
Novo Nordisk	2014 - present
Mercia Pharmaceuticals	2015 - present
Janssen Pharmaceuticals	2016 - present
Merck Pharmaceuticals	2016 - present

**GRANT SUPPORT  
(ACTIVE):**

1UC4DK108132-01 Atkinson (PI)  
 NIH/NIDDK  
 "Single-Cell Analyses of Human Islets in T1D Using Highly Multiplexed Imaging"  
 Funding Period: 09/24/2015 - 06/30/2020  
 Total award: \$3,600,000  
 Role: PI

NIH P01 AI42288 Atkinson (PI)  
 "Immune Function and the Progression to Type 1 Diabetes"  
 Funding Period: 05/01/2013 - 04/30/2018  
 Total Award: \$5,922,240  
 Role: PI

JDRF 25-2013-268 Atkinson (PI)  
 Juvenile Diabetes Research Foundation  
 "Network for Pancreatic Organ Donors with Diabetes - Administrative Core"  
 Funding Period: 01/01/2013 - 12/31/2017  
 Total Award: \$15,101,575  
 Role: PI

JDRF 25-2013-268 Atkinson (PI)  
Juvenile Diabetes Research Foundation  
"Network for Pancreatic Organ Donors with Diabetes – OPPC Core"  
Funding Period: 01/01/2013 - 12/31/2017  
Total Award: \$3,018,455  
Role: PI

5U01AI102370-06 Von Herrath (PI)  
LIAI/NIH  
"Assessment of Cytokine Expression in Human Pancreata During Diabetes Pathogenesis"  
Funding Period: 07/01/2012 - 06/30/2017  
Total Award: \$183,605  
Role: Co-I

DP3 DK101120 Campbell-Thompson (PI)  
NIH/NIDDK  
"Pancreatic Volume in Preclinical Type 1 Diabetes"  
Funding Period: 09/20/2013 – 08/31/2016  
Total Award: \$934,026  
Role: Co-I

UC4 DK104155 Gerling (PI)  
NIH/NIDDK  
"Defining Islet Heterogeneity Using Single Islet Transcriptomics"  
Funding Period: 09/19/2014 - 08/31/2017  
Total Award: \$705,000  
Role: Co-I

R01 DK095735-01 Serreze (PI)  
Jackson Laboratories/NIH  
"B-Lymphocyte Targeting Therapies for Autoimmune Diabetes"  
Funding Period: 04/01/2013 - 03/31/2018  
Total Award: \$32,990  
Role: Co-I

R01 DK098589 Keselowsky (PI)  
NIH/NIDDK  
"Biomaterial Delivery System for Type 1 Diabetes Vaccine"  
Funding Period: 07/01/2014 – 06/30/2018  
Total Award: \$374,186  
Role: Co-I

HCT CU15-0070 Elgi (PI)  
Columbia Univ/Helmsley Charitable Trust  
"Helmsley Trust Diabetes Cell Repository"  
Funding Period: 01/01/2015 - 12/31/2016  
Total Award: \$55,800  
Role: Co-I

DP3 Qian (PI)  
PNNL/NIH  
"Serum protein biomarkers for predicting type 1 diabetes development"  
Funding Period: 07/01/2016 - 06/30/2019  
Total Award: \$225,000  
Role: Co-I

**PENDING** UC4 DK112232 Powers (PI)  
Vanderbilt/NIH/NIDDK  
“Integrated Program for Human Pancreas Procurement and Analysis”  
Funding Period: 12/01/2016 - 11/30/2021  
Total Award: \$2,418,170  
Role: Multi-PI

**ENDOWMENT** F007367  
**FUNDING (ACTIVE): Ellis Family Research Endowment**  
Annual Distribution: \$39,353.70  
Principle: \$1,2,00,000

F013907  
**American Diabetes Association Eminent Scholar**  
Annual Distribution: \$112,500  
Principle: \$3,300,000

F021401  
**Salisbury Diabetes Research Endowment**  
Annual Distribution: \$14,720  
Principle: \$542,825

F008339  
**Keene Translational Diabetes Research Endowment**  
Annual Distribution: \$56,388.54  
Principle: \$1,790,000

F004665  
**Kriser Foundation Diabetes Research Fund**  
Principle: \$91,124

F008485  
**American Diabetes Association Endowment**  
Annual Distribution: \$6,079.00  
Principle: \$190,920

**PREVIOUS (selected from 1992 onward; only PI or CO-PI; ~30 other support grants not noted):** JDRF 25-2012-770 Atkinson (PI)  
Juvenile Diabetes Research Foundation  
“The JDRF nPOD Viral Work Group: nPOD V”  
Funding Period: 09/01/2012 - 08/31/2016  
Total Award: \$2,737,575  
Role: PI

UC4 DK097835 Krischer (PI)  
USF/NIH/NIDDK  
“TrialNet Core Biomarkers and Mechanisms Panel”  
Funding Period: 09/01/2015 - 08/30/2016  
Total Award: \$23,040  
Role: Co-I

R56 DK099174 Zhang (PI)  
National Institutes of Health  
“Protein Markers to Type 1 Diabetes Progression”  
Funding Period: 09/01/2014 - 08/31/2015

Total Award: \$8,483 (Atkinson portion)  
Role: Co-PI

Battelle Memorial Institute Pacific Northwest Division  
"Pancreatic Tissue & Serum Progression Marker Discovery"  
Funding Period: 12/04/2013 - 08/31/2015  
Total Award: \$16,994  
Role: Co-PI

JDRF 25-2012-380  
Juvenile Diabetes Research Foundation  
"nPOD Expansion"  
Funding Period: 09/01/2012 - 08/31/2013  
Total Award: \$345,950  
Role: PI

JDRF 17-2012-541  
Juvenile Diabetes Research Foundation  
"Ex Vivo Analysis of the Cell Educator System"  
Funding Period: 09/01/2012 - 08/31/2013  
Total Award: \$118,932  
Role: PI

JDRF/UCF 17-2011-286/22208036  
Juvenile Diabetes Research Foundation/ University of Central Florida  
"Evaluate Optimal Dose and Therapeutics"  
Funding Period: 04/01/2011 - 03/31/2014  
Total Award: \$164,399  
Role: Co-PI

ADA 7-12-MN-03  
American Diabetes Association  
"Identifying the Contribution of Beta Cell Dysfunction and Autoimmunity to the Pathogenesis of Type 1 Diabetes"  
Funding Period: 07/01/2012 - 06/03/2016  
Total Award: \$171,000  
Mentor based Post-doctoral Fellowship  
Role: PI

09PG-T1D0010  
The Leona M. and Harry B. Helmsley Charitable Trust  
"To Arrest the Immune Assault on Beta Cells in Vivo"  
Funding Period: 2009 - 2012  
Total Award: \$600,000  
Role: PI

09-PGT1D022  
The Leona M. and Harry B. Helmsley Charitable Trust  
"Reversing Type 1 Diabetes After it is Established – Master Trial Center"  
Funding Period: 09/01/2009 - 05/31/2015  
Total Award: \$911,570  
Role: PI

Sanford Health  
"Combinational Therapy in Type 1 Diabetes"  
Funding Period: 12/01/2009 - 11/30/2015  
Total Award: \$190,000  
Role: PI

JDRF 3-2011-51  
Juvenile Diabetes Research Foundation  
"The Role of the Beta Cell (dys)function"  
Funding Period: 03/01/2011 - 02/28/2014  
Total Award: \$144,372  
Role: Mentor (Patrick Rowe Fellowship)

09AG-118598  
The Leona M. and Harry B. Helmsley Charitable Trust  
"Creating a Cell and Serum Storage Facility for Advanced Studies of Cell  
Functioning in Type 1 Diabetes"  
Funding Period: 2009 - 2012  
Total Award: \$372,876  
Role: PI

R21 DK078863  
National Institutes of Health  
"Short Course G-CSF as Immunomodulatory Therapy for Type 1 Diabetes"  
Funding Period: 2008 - 2010  
Annual: \$198,267  
Role: Co-PI

JDRF 4-2007-1065  
Juvenile Diabetes Research Foundation  
"Cord Blood Therapies for Type 1 Diabetes"  
Funding Period: 09/01/2007 - 08/31/2013  
Total Award: \$1,240,595  
Role: PI

JDRF 17-2007-1045  
Harvard University Subcontract  
"Identification of Autoantigens in Type 1 Diabetes by Protein Microarrays"  
Funding Period: 2007 - 2010  
Total Award: \$114,807  
Role: Co-PI

JDRF 17-2007-1045  
Juvenile Diabetes Research Foundation  
Program Project, Research Grant  
"Autoantigen Identification"  
Funding Period:  
Total Award: \$ 117,344  
Role: PI

Juvenile Diabetes Foundation Innovative Award  
"Expansion of Regulatory T cells from Umbilical Cord Blood"  
Total award: \$55,000  
Funding period: 2007 - 2008  
Role: PI

Juvenile Diabetes Foundation Innovative Award  
"Phenotype/Genotype Studies of CD25 In Type 1 Diabetes"  
Total award: \$40,000  
Funding period: 2007 - 2008  
Role: PI

R01 DK047858  
National Institutes of Health  
Program Project, Research Grant  
"A study of model beta cells in diabetes treatment"  
Funding Period: 2006 - 2011  
Total Award: \$1,296,445  
Role: Co-PI

JDF 7-2005-875  
Juvenile Diabetes Research Foundation  
"Novel Mechanisms and Therapies Targeting Dysfunctional Endothelium"  
Funding years: 2006 - 2009  
Total Award: \$660,000  
Role: co-PI

Juvenile Diabetes Foundation  
Program Project Research Grant  
"Immunoregulatory Based Therapies for the Prevention and Reversal of  
Type 1 Diabetes"  
Funding period: 2006 - 2009  
Total award: \$545,000  
Role: PI

American Diabetes Association  
Research Grant  
"Mechanisms and Characterization of Regulatory T Cell Defects in Human  
Type 1 Diabetes"  
Funding period: 2006 - 2009  
Total award: \$300,000  
Role: PI

R21-DK077580  
National Institutes of Health  
"Cord Blood Immunoregulation of Type 1 Diabetes"  
Funding years: 2006 - 2009  
Total Award: \$272,600  
Role: PI

JDRF/Benaroya 9-2012-22/12703602  
JDRF/ITN Partnership in Immune Tolerance  
Funding Period: 01/01/2012 - 12/31/2013  
\$50,000 per year  
Role: local PI

Lawson Wilkins Pediatric Endocrine  
Society  
Research Fellowship  
Funding period: 2005 - 2007  
Total award: \$105,000



Role: PI

National Institutes of Health  
"Characterization & Therapeutic Efficacy of Insulin-Producing Cells Generated  
in vitro from Adult Hepatic Oval Stem Cells"  
Funding period: 2003 - 2008  
Total Award: \$350,000  
Role: Mentor  
Trainee: Lijun Yang, M.D.

R21 63422  
National Institutes of Health  
"Dendritic Cells and the Prevention of Type 1 Diabetes"  
Funding Period: 2002 - 2004  
Total award: \$435,125  
Role: Co-PI

UF 96022928  
American Diabetes Association  
"Cytokine Gene Therapy for the Prevention of Insulin Dependent Diabetes"  
Funding period: 2002 - 2004  
Total award: \$200,000  
Role: PI

P01AI42288-10  
National Institutes of Health  
"Immune Function in High and Low Risk Genotypes in Insulin Dependent  
Diabetes"  
Funding period: 2001 - 2006  
Total Award: \$5,203,000.00  
Role: PI

U42 RR16586  
National Institutes of Health  
National Gene Vector Laboratory Toxicology Center. Project 1  
Total award: \$736,539  
Funding period: 2001 - 2006  
Role: PI

National Kidney Foundation  
Fellowship Training Program  
"The Role of Heme Oxygenase-1 in Pancreatic B-cell Survival"  
Funding period: 2001 – 2003  
Total award: \$82,000.00  
Role: Mentor/ PI  
Fellow trainee: Matthias Kapturczak, M.D., Ph.D.

Juvenile Diabetes Research Foundation  
"The JDFI Gene Therapy Center for the Prevention of Diabetes and it's  
Complications at the University of Florida and the University of Miami"  
Funding period: 2000 - 2005  
Total award: \$10,600,000.00  
Role: PI

P01DK58327  
National Institutes of Health.

“Recombinant AAV for Correction of Genetic Abnormalities. Core C”  
Immunology/Pathology.  
Total award: \$4,795,690 (PPG)  
Total award: \$767,423 (Core)  
Funding period: 2000 - 2005  
Role: PI

National Institutes of Health  
“DQB1\*0602 Relatives: Mechanisms Conferring diabetes Protection”  
Funding period: 1999 - 2002  
Total award: \$210,967  
P.I.: Carla Greenbaum, M.D. (University of Washington).  
Role: co-PI

Juvenile Diabetes Research Foundation  
“Cytokine Mediated Gene Therapy for the Prevention & Reversal of Insulin  
Dependent Diabetes”  
Funding Period: 1999 - 2001  
Total Award: \$199,686  
Role: PI

Juvenile Diabetes Research Foundation  
“The Role for B-Lymphocytes in the Development of Anti-GAD & Anti  
Coxsackie Viral Immune Responses in NOD Mice”  
Funding Period: 1998 - 2000  
Total award: \$192,702  
Role: PI

P01AI42288  
National Institutes of Health.  
“Immune Function in High and Low Risk Genotypes in Insulin Dependent  
Diabetes”  
Funding period: 1997 - 2001  
Total award: \$5,818,473.00  
Role: PI

2R01AI39250  
National Institutes of Health  
“Mechanisms of Immunotherapy in IDD Prevention Trials”  
Funding period: 1996 - 2001  
Total award: \$1,094,264.00  
Role: PI

Juvenile Diabetes Research Foundation  
“Insulin Secretion & Lymphocyte Insulin Receptor Expression: Key Variables  
to the Rate of Beta Cell Destruction”  
Funding Period: 1996 - 1998  
Total award: \$98,120  
Role: PI

National Dairy Council  
“The Role of Infant Nutrition in the Pathogenesis of Insulin Dependent  
Diabetes”  
Funding period: 1995 - 1997  
Total award: \$50,000  
Role: PI

R29 DK4532  
National Institutes of Health  
"Cellular Immunity to Glutamate Decarboxylase in IDD"  
Funding Period: 1992 - 1997  
Total award: \$112,989  
Role: PI

**PATENTS:**

**Type 1 Diabetes Biomarkers;** US20160195546A1; Joshua Labaer, Ji Qiu, Xiaofang Bian, Desmond A. Schatz, Clive H. Wasserfall and Mark A. Atkinson; Date of Patent: January 7, 2016.

**Combination therapies for treating type 1 diabetes;** US20140301973A1; Mark A. Atkinson; Date of Patent: June 22, 2014.

**Compositions for treatment and/or prevention of autoimmune disorders;** US20160022793A1; Joseph Larkin and Mark A. Atkinson; Date of Patent: March 18, 2014

**Novel type 1 diabetes vaccines, and methods of use;** US20140271718A1; Joseph Larkin and Mark A. Atkinson; Date of Patent: March 17, 2014

**Materials and methods for modulating immune responses;** US20150147388A1; Clive Henry Wasserfall, Mark A. Atkinson, Benjamin George Keselowsky and Young Mee Yoon; Date of Patent: June 25, 2012

**Antigen-specific, tolerance-inducing microparticles and uses thereof;** US20130287729A1; Benjamin George Keselowsky, Jamal' Lewis, Abhinav Acharya, Michael J. Clare-Salzler, Mark A. Atkinson, Clive Henry Wasserfall, Chang Qing Xia and Todd M. Brusko; Date of Patent: October 24, 2011.

**Lactobacillus supplement for alleviating type 1 diabetes;** US20120183513A1; Josef Neu, Graciela Liliana Lorca, Eric W. Triplett, Mark A. Atkinson and Desmond A. Schatz; Date of Patent: February 18, 2010

**Combination therapies for treating type 1 diabetes;** US8758761B2; Mark A. Atkinson, Scott Eisenbeis, Donna Armentano, Abraham Scaria and Tracey Lodie; Date of Patent: September 30, 2008.

**Materials and Methods for the Detection, Prevention and Treatment of Autoimmune Disease;** US20100178652A1; Sally A. Litherland, Marcia McDuffie, Laurence Morel, Federica Seydel, Erin Garrigan, Nicole A. Belkin, Bryan Stutevoss, Michael J. Clare-Salzler, Mark A. Atkinson, Clive Henry Wasserfall, Ammon B. Peck and Abdolreza Davoodi-Semiromi; Date of Patent: January 7, 2008.

**Nanoparticles for protection of cells from oxidative stress;** US20100172994A1; Wolfgang M. Sigmund, Yi-Yang Tsai, Ioannis Constantinidis, Jenny Dorley, Jose Antonio Oca-Cossio, Carol Ann Sweeney, Nicholas Edward Simpson and Mark A. Atkinson; Date of Patent: November 23, 2007

**Materials and Methods for Reversing Type 1 Diabetes;**

US20090162345A1; Mark A. Atkinson, Gregory Simon, Clive Henry Wasserfall, Abraham Scaria, Desmond A. Schatz, Donna Armentano and Srinivas Shankara; Date of Patent: November 29, 2006

**Biomarkers for differentiating between type 1 and type 2 diabetes;**

WO2005094200A3; Tamir M. Ellis, Alba Esther Morales, Mark A. Atkinson and Clive Henry Wasserfall; Date of Patent: June 21, 2004

**Methods and compositions for expressing a nucleic acid in a dendritic cell;**

WO2003093440A3; Mark A. Atkinson, Michael Clare-Salzler, Terence R. Flotte, Chengwin Li, Scott A. Loiler, Jude Samulski, Sihong Song and Karl L. Womer; Date of Patent: April 30, 2003

**IMPROVED rAAV VECTORS;**

WO2003089612A3; Mark A. Atkinson, Terence R. Flotte, Scott A. Loiler and Nicholas Muzyczka; Date of Patent: April 17, 2003.

**Method and compositions for early detection and treatment of insulin dependent diabetes mellitus;**

US6001360A; Mark A. Atkins and Noel K. Maclaren; Date of Patent: June 7, 1995.

**Methods and compositions for the early detection and treatment of insulin dependent diabetes mellitus;**

US5645998A; Mark A. Atkinson and Noel K. Maclaren; Date of Patent: May 13, 1994

**Methods and compositions for the early detection and treatment of insulin dependent diabetes mellitus;**

US5762937A; Mark A. Atkinson and Noel K. Maclaren; Date of Patent: March 28, 1994

European Patent No. EP 0543945 B1; **Methods and Compositions for the Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren; Date of Patent: October 10, 1996.

U.S. Patent No. 5,645,998; filed May 13, 1994; **Methods and Compositions for the Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren; Date of Patent: July 8, 1997.

U.S. Patent No. 5,762,937; filed March 28, 1994; **Methods and Compositions for the Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren; Date of Patent: June 9, 1998.

U.S. Patent 6,001,360; filed June 7, 1995; **Methods and Compositions for the Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren. Date of Patent: December 14, 1999.

Australian Patent 661,828; filed August 16, 1991; **Methods and Compositions for the Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren. Date of Patent: May 11, 2000.

U.S. Patent 6,300,089; filed June 6, 1995; **Methods and Compositions for Early Detection and Treatment of Insulin Dependent Diabetes Mellitus;**

Mark A. Atkinson and Noel K. Maclaren; Date of Patent: October 9, 2001.

U.S. Patent 7,648,825; filed June 21, 2004; **Biomarkers for Differentiating Between Type 1 and Type 2 Diabetes**; Tamir M. Ellis, Alba E. Morales, Mark A. Atkinson and Clive H. Wasserfall. Date of Patent: January 19, 2010.

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2. **Atkinson, M.A.**; Fisk, D.D.; Spillar, R.P., MacLaren N.K.: Insulin Autoantibodies As Markers For Insulin-Dependent Diabetes Mellitus (IDD). Diabetes 35: A87-A87, 1986.
3. Beppu, H.; Winter, W.E.; **Atkinson, M.A.**; Fujita, K.; Takahashi, H.: Immune Response to Bovine Serum-Albumin (BSA) in NOD Mice - Possible Relevance to Diabetes. Diabetes 35: A184-A184, 1986.
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5. \*Maclaren, N.; Riley, W.; Skordis, N.; **Atkinson, M.**; Spillar, R.; Silverstein, J.; Klein, R.; Rotter, J.: Inherited Susceptibility to Insulin Dependent Diabetes is Associated with HLA-DR 1, While DR5 is Protective. Autoimmunity 1: 197-205, 1988.
6. \***Atkinson, M.A.**; Maclaren, N.K.: Autoantibodies in Non-Obese Diabetic Mice Immunoprecipitate and Mr 64,000 Islet Cell Antigen. Diabetes 37: 1587-1590, 1988.
7. \***Atkinson, M.A.**; Winter, W.E.; Skordis, N.K.; Beppu, H.; Riley, W.J.; Maclaren, N.K.: The Effect of Dietary Protein Restriction Reduces the Frequency and Delays the Onset of Insulin Dependent Diabetes in BB Rats. Autoimmunity 2: 11-19, 1988.
8. \*Riley, W.J, **Atkinson, M.A.**; MacLaren, NK: Insulin autoantibodies in pre-diabetes. Advances In Experimental Medicine and Biology 246: 45-51, 1988.
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13. **Atkinson, M.A.**; Maclaren, N.K.: What Causes Diabetes? Scientific American 62: 66-71, 1990.
14. \***Atkinson, M.A.**; N.K. Maclaren; Luchetta, R.; Burr, I.: Insulinitis and Diabetes in NOD mice reduced by prophylactic insulin therapy. Diabetes 39: 933-937, 1990.
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Heat-Shock Protein in Diabetes. The Lancet 336 (8725): 1250-1251, 1990.

16. \***Atkinson, M.A.**; Maclaren, N.K.; Scharp, D.W.: No Evidence for HSP 65 in Insulin Dependent Diabetes. The Lancet 336: 1250-1251, 1990.
17. \***Atkinson, M.A.**; Holmes, L.A.; Sharp, D.W.; Lacy, P.E.; Maclaren, N.K.: No Evidence for Serological Autoimmunity To Islet Cell Heat Shock Proteins in Insulin Dependent Diabetes. The Journal of Clinical Investigation 87: 721-724, 1991.
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19. \*Kaufman, D.L.; Elander, M.G.; Clare-Salzler, M.C.; **Atkinson, M.A.**; Maclaren, N.K.; Tobin, A.J.: Autoimmunity to Two Forms of Glutamate Decarboxylase in Insulin Dependent Diabetes Mellitus. The Journal of Clinical Investigation 89: 283-292, 1992.
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