

BIOGRAPHICAL

Name:	Daniel J. Perry	Date of Birth:	May 16, 1976
Affiliation:	University of Florida College of Medicine Department of Pathology, Immunology, and Laboratory Medicine	Place of Birth:	Warwick, RI
		Citizenship:	U.S.A.
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EDUCATION

1994-1998	B.S. in Animal Sciences College of Agriculture and Life Sciences University of Vermont Burlington, VT
2005-2011	Ph.D. in Medical Sciences – Immunology and Microbiology College of Medicine University of Florida Gainesville, FL
<i>Dissertation</i>	Genetic Dissection of Murine Lupus Susceptibility Locus <i>Sle1c</i> Identifies Estrogen Related Receptor Gamma as a Novel Regulator of Autoimmunity
<i>Doctoral Committee</i>	Laurence M. Morel (advisor and chair), Eric S. Sobel, Clayton E. Mathews, Alberto Riva, Margaret R. Wallace

PROFESSIONAL EXPERIENCE**Academic**

2018-present	Research Assistant Scientist College of Medicine, Department of Pathology, Immunology, and Laboratory Medicine University of Florida, Gainesville, FL
2018-present	Co-Director, Immune Monitoring Core College of Medicine, Department of Pathology, Immunology, and Laboratory Medicine

- University of Florida, Gainesville, FL
- 2011-2018 Postdoctoral Associate
College of Medicine, Department of Pathology, Immunology, and
Laboratory Medicine, Brusko Lab
University of Florida, Gainesville, FL
- 2006-2011 Graduate Research Assistant
College of Medicine, Department of Pathology, Immunology, and
Laboratory Medicine, Morel Lab
University of Florida, Gainesville, FL
- 2002-2005 Laboratory Manager
College of Medicine, Department of Pathology, Immunology, and
Laboratory Medicine, Morel Lab
University of Florida, Gainesville, FL
- 1996-1998 Undergraduate Laboratory Technician
Quality Milk Research Lab
University of Vermont, Burlington, VT
- 1996-1998 Undergraduate Laboratory Technician
College of Agriculture and Life Sciences, Plaut Lab
University of Vermont, Burlington, VT

Additional Professional Development

- 2019 Systems Immunology Workshop
Federation of Clinical Immunological Societies (FOCiS) 2019
Boston, MA
- 2019 Big Data Workshop
Federation of Clinical Immunological Societies (FOCiS) 2019
Boston, MA
- 2018 GMS5905: Informatics for Pathology Practice and Research.
Certification in data science and management: Unix operating system,
Python programming, and data analysis and visualization using Pandas
University of Florida, Gainesville, FL 32696

Teaching

- 2016 Substitute Lecturer, GMS6140 - Immune Tolerance and Treg
College of Medicine
University of Florida, Gainesville, FL
- 2009 Teaching Assistant, BMS 6830 - Essentials of Patient Care III

College of Medicine
University of Florida, Gainesville, FL

2008 Teaching Assistant, BMS 6601C - General Pathology and Immunology
College of Medicine
University of Florida, Gainesville, FL

Activities

2016 Presented original research at UF Pathology Research Symposium.

2014 Attended training sessions and seminars by leaders in emerging metabolomics technologies at the Southeast Center for Integrated Metabolomics Workshop and Symposium

2014 Attended grantsmanship workshop: "Writing Winning Grants"

2013-2016 Presented original research at four UF Immune Metabolism Retreats.

2013 Organized demo and training sessions for XF96 and XFe96 extracellular flux analysis instruments (Seahorse Bioscience, Billerica, MA)

2010 Recruited and organized for Dr. Jeffrey Bluestone as the student sponsored speaker for Interdisciplinary Biomedical Graduate Program, Immunology and Microbiology Concentration

Honors & Awards

2009 Keystone Symposia Education Fund Scholarship. Travel Award.

2013 Federation of Clinical Immunological Societies. Poster of Merit.

2014 Experimental Pathology Innovative Grant. 2013 Competition Awardee.

2016 Society for Leukocyte Biology at AAI. Travel Stipend.

Professional Membership

The American Association of Immunologists 2007-present

American Association for the Advancement of Science 2007-2009

Federation of Clinical Immunological Societies 2013-present

Society for Leukocyte Biology 2015-present

Journal Reviewer

Pediatric Diabetes

BMC Immunology

Diabetes

Presented Abstracts and Invited Lectures:

- Perry D.J.** and Morel L.M. Genetic Dissection of *Sle1c*. The 94th Annual Meeting of the American Association of Immunologists. Miami Beach, FL. 2007. Presentation Type: Poster.
- Perry D.J.** and Morel L.M. A congenic dissection approach to identify lupus susceptibility genes. Florida Genetics. Gainesville, FL. 2007. Presentation Type: Poster.
- Perry D.J.**, Boackle S.A., Morel L.M. Genetic dissection of the lupus susceptibility locus *Sle1c*. Keystone Symposia: Tolerance in Transplantation and Autoimmunity. Keystone, CO. 2008. Presentation Type: Poster.
- Perry D.J.**, Dozmorov I., Morel L.M. Treg/TH17 homeostasis is altered by a gene in the lupus susceptibility locus, *Sle1c2*. Lupus Genetics Conference. Oklahoma City, OK. 2008. Presentation Type: Poster.
- Perry D.J.**, Dozmorov I., Morel L.M. Refinement of the lupus susceptibility locus, *Sle1c*. Florida Genetics. Gainesville, FL. 2008. Presentation Type: Poster.
- Perry D.J.**, Dozmorov I., Morel L.M. TH17/Treg homeostasis is altered by the lupus susceptibility locus, *Sle1c-2*. Keystone Symposia: TH17 Cells in Health and Disease. Vancouver, British Columbia, Canada. 2009. Presentation Type: Poster.
- Perry D.J.**, Thompson J.A., Han Z., Atkinson M.A., Brusko T.M. Modulation of T cell receptor and Interleukin-2 receptor signaling in human primary CD4+ T cells. The 99th Annual Meeting of the American Association of Immunologists. Boston, MA. 2012. Presentation Type: Poster.
- Perry D.J.**, Saikumar P.L., Jia X., Brusko T.M. Functional Consequences of *PTPN22* Modulation in Primary Human CD4+ T Cells. Federation of Clinical Immunology Societies. Boston, MA. 2013. Presentation Type: Poster.
- Perry D.J.**, Saikumar P.L., Zhang L., Brusko T.M. Functional evaluation of *PTPN22* modulation in human T cells. The 101st Annual Meeting of the American Association of Immunologists. Boston, MA. 2015. Presentation Type: Poster.
- Perry D.J.**, Yin Y., Morel L.M., Brusko T.M. Metabolic profiling of human PBMC subsets. Society of Leukocyte Biology guest symposium at the 102nd Annual Meeting of the American Association of Immunologists. Seattle, WA. 2016. Presentation Type: **Oral**.
- Perry D.J.**, Saikumar P.L., Zhang L., Brusko T.M. Functional evaluation of *PTPN22* modulation in human T cells. The Human Islet Research Network Annual Investigator Meeting. Bethesda, MA. 2016. Presentation Type: Poster.
- Perry D.J.** “Genetic Risk Score and Type 1 Diabetes”. American Diabetes Association. San Diego, California. 2017. Presentation Type: **Invited Oral**.
- Perry D.J.**, Schultz A.R., Seay H.R., Atkinson M.A., Brusko T.M. Comprehensive Immunophenotyping Identifies Novel Subset Associations with Age and Type 1 Diabetes Status. Federation of Clinical Immunology Societies. Chicago, IL. 2017. Presentation Type: Poster.
- Perry D.J.**, Wasserfall C.H., Haller M.J., Schatz D.A., Atkinson M.A., Brusko T.M. Assessing a machine learning strategy to improve measurement of T1D genetic risk. Federation of Clinical Immunology Societies. Chicago, IL. 2017. Presentation Type: Poster.

Perry D.J. “T cell specificity and function in type 1 diabetes: From pathogenesis to adoptive Treg cell therapy” Canadian Society of Transplantation & Cell Transplant and Regenerative Medicine Society Joint Scientific Meeting. Halifax, Nova Scotia, CA. 2017. Presentation Type: **Invited Oral.**

Perry D.J. “Growth Charts For the Pediatric Immune System” Pediatric Brain Tumor Foundation: Translating Discoveries to Cure the Kids (TD2). Portland, Oregon. May 2018. Presentation Type: **Invited Oral.**

PUBLICATIONS

Refereed Articles

Chen, Y., **D. Perry**, S. A. Boackle, E. S. Sobel, H. Molina, B. P. Croker, and L. Morel. 2005. Several Genes Contribute to the Production of Autoreactive B and T Cells in the Murine Lupus Susceptibility Locus Sle1c. *J Immunol.* 175: 1080-1089.

Rahman, Z. S. M., H. Niu, **D. Perry**, E. Wakeland, T. Manser, and L. Morel. 2007. Expression of the autoimmune Fcgr2b NZW allele fails to be upregulated in germinal center B cells and is associated with increased IgG production. *Genes Immun.* 8: 604-612.

Xu, Z., H. H. Potula, A. Vallurupalli, **D. Perry**, H. Baker, B. P. Croker, I. Dozmorov, and L. Morel. 2011. Cyclin-Dependent Kinase Inhibitor Cdkn2c Regulates B Cell Homeostasis and Function in the NZM2410-Derived Murine Lupus Susceptibility Locus Sle2c1. *J Immunol.* 186: 6673-6682.

Perry, D., Y. Yin, T. Telarico, H.V. Baker, I. Dozmorov, A. Perl, and L. Morel. 2012. Murine lupus susceptibility locus Sle1c2 mediates CD4⁺ T cell activation and maps to estrogen-related receptor γ . *J Immunol.* 189(2):793-803.

Yin Y., S.C. Choi, Z. Xu, **D.J. Perry**, H. Seay, B.P. Croker, E.S. Sobel, T.M. Brusko, and L. Morel. 2015. Normalization of CD4⁺ T Cell Metabolism Reverses Lupus. *Sci Transl Med.* *Sci Transl Med.* 7(274):274ra18.

Fuhrman CA, Yeh WI, Seay HR, Saikumar Lakshmi P, Chopra G, Zhang L, **Perry DJ**, McClymont SA, Yadav M, Lopez MC, Baker HV, Zhang Y, Li Y, Whitley M, von Schack D, Atkinson MA, Bluestone JA, Brusko TM. 2015. Divergent Phenotypes of Human Regulatory T Cells Expressing the Receptors TIGIT and CD226. *J Immunol.* 195(1):145-55.

Haller MJ, Gitelman SE, Gottlieb PA, Michels AW, **Perry DJ**, Schultz AR, Hulme MA, Shuster JJ, Zou B, Wasserfall CH, Posgai A, Mathews CE, Brusko TM, Atkinson MA, Schatz DA. 2016. Anti-Thymocyte Globulin + G-CSF Combination Therapy Leads to Sustained Immunomodulatory and Metabolic Effects in a Subset of Responders with Established Type 1 Diabetes. *Diabetes* 65(12): 3765-3775.

Lowe JR, **Perry DJ**, Salama AKS, Mathews CM, Moss LG, Hanks BA. 2016. Genetic Risk Analysis of a Patient with Fulminant Autoimmune Type 1 Diabetes Mellitus Secondary to Combination Ipilimumab and Nivolumab Immunotherapy. *J Immunother Cancer.* 4:89.

Marcial GE, Ford AL, Haller MJ, Gezan SA, Harrison NA, Cai D, Meyer JL, **Perry DJ**, Atkinson MA, Wasserfall CH, Garrett T, Gonzalez CF, Brusko TM, Dahl WJ, Lorca GL. 2017.

- Lactobacillus johnsonii N6.2 Modulates the Host Immune Responses: A Double-Blind, Randomized Trial in Healthy Adults. *Front Immunol.* 12;8:655.
- Chen J, Chernatynskaya AV, Li JW, Kimbrell MR, Cassidy RJ, **Perry DJ**, Muir AB, Atkinson MA, Brusko TM, Mathews CE. 2017. T cells display mitochondria hyperpolarization in human type 1 diabetes. *Sci Rep.* 7(1):10835.
- Perry DJ**, Wasserfall CH, Oram RA, Williams MD, Posgai A, Muir AB, Haller MJ, Schatz DA, Wallet MA, Mathews CE, Atkinson MA, Brusko TM. 2018. Application of a Genetic Risk Score to Racially Diverse Type 1 Diabetes Populations Demonstrates the Need for Diversity in Risk-Modeling. *Sci Rep.* 8(1):4529.
- Beam CA, Wasserfall C, Woodwyk A, Akers M, Rauch H, Blok T, Mason P, Vos D, **Perry D**, Brusko T, Peakman M, Atkinson M. 2020. Synchronization of the Normal Human Peripheral Immune System: A Comprehensive Circadian Systems Immunology Analysis. *Sci Rep.* 10(1):672 . doi: 10.1038/s41598-019-56951-5

Invited Reviews

- Perry, D.**, A. Sang, Y. Yin, Y. Y. Zheng, and L. Morel. 2011. Murine models of systemic lupus erythematosus. *J Biomed Biotechnol* 2011: 271694.
- Perry, D.**, A. Peck, W. Carcamo, L. Morel, and C. Nguyen. 2011. The Current Concept of TH17 Cells and Their Expanding Role in Systemic Lupus Erythematosus. *Arthritis.* 2011: 810649.
- Thompson, JA., **D.J. Perry**, and T.M. Brusko. 2012. Autologous regulatory T cells for the treatment of type 1 diabetes. *Curr Diab Rep* 2012 Oct;12(5):623-32.
- Jacobsen LM, Newby BN, **Perry DJ**, Posgai AL, Haller MJ, Brusko TM. 2018. Immune Mechanisms and Pathways Targeted in Type 1 Diabetes. *Curr Diab Rep.* 30;18(10):90. doi: 10.1007/s11892-018-1066-5.

RESEARCH SUPPORT

Ongoing Research Support

- | | |
|---|----------------|
| SRA (PI: Wasserfall CH) | 4/1/19-3/31/20 |
| JDRF | \$110,001 |
| <i>A Composite Serological Risk Score to Predict Type 1 Diabetes Progression and Clinical Diagnosis</i> | |
| Role: Co-I; Contributions to experimental design | |
| SRA (Co-PIs: Brusko TM, Perry DJ , Cerosaletti K, Linsley P) | 6/1/19-5/31/22 |
| JDRF, 3-SRA-2019-793-S-B | \$300,000 |
| <i>Single cell sequencing for islet-reactive T cell clonotype and transcript signatures</i> | |
| Role: Experimental design; Lead drafting and submission of proposal | |

Completed Research Support

- Research Subaward (PI: Gitelman, UCSF; Subrecipient PI: Brusko TM) 3/1/19-7/31/19
 JDRF \$16,508
Mechanistic Studies of Adult Participants in the phase 2 new onset T1DM imatinib trial
 Role: Subrecipient Co-PI; Experimental design; contributions to drafting subaward proposal
- Postdoctoral Fellowship (PI: **Perry DJ**) 5/1/16-4/30/18
 JDRF, Award Number 2-PDF-2016-207-A-N
Altered immunometabolic associations with type 1 diabetes clinical status and genetic risk
 Role: Experimental design, drafting and submission of proposal; execution of experiments; data analysis; project updates
- Biomarker Discovery (PI: Chen J) 9/1/12-8/31/15
 JDRF, Award Number 17-2012-595
Lymphocyte mitochondrial dysfunction in Type 1 diabetes
 Role: Key Personnel; Experimental design, drafting of proposal
- Experimental Pathology Innovative Grant (PI: **Perry DJ**) 10/01/13-4/30/14
 University of Florida, Department of Pathology, Immunology, and Experimental Medicine
Metabolic profiling of Human PBMC subsets.
 Role: Experimental design, drafting and submission of proposal; execution of experiments; data analysis; project updates
- Innovative Grant (PI: Chen J) 7/1/12-6/30/14
 American Diabetes Association
Role of T cell mitochondrial function in type 1 diabetes.
 Role: Key Personnel; Experimental design; drafting of proposal
- Experimental Pathology Innovative Grant (PI: **Perry DJ**) 10/01/11-4/30/12
 University of Florida, Department of Pathology, Immunology, and Experimental Medicine
Functional consequences of PTPN2 and PTPN22 modulation in human primary T cells.
 Role: Experimental design, drafting and submission of proposal; execution of experiments; data analysis; project updates

Other Contributions to Funding Mechanisms

- Interventional/Clinical Trial (PIs: Malek TR, Pugliese A, Skyler JS) 08/15/17 – 07/31/22
 NIAID, Award Number U01AI125057
 Administration of Low-dose IL-2 in Established T1D
 Role: Contributions to experimental design and drafting of proposal
- Innovative Grant (PI: Beam CA) 6/1/2017-5/31/2018
 JDRF, Award Number 1-INO-2017-458-A-N

Circadian Rhythm of Innate and Adaptive Immunity in T1D
Role: Contributions to experimental design