

# Todd M Brusko

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8559598/publications.pdf>

Version: 2024-02-01

116  
papers

8,347  
citations

53794

45  
h-index

49909

87  
g-index

125  
all docs

125  
docs citations

125  
times ranked

10121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Normalization of CD4 <sup>+</sup> T cell metabolism reverses lupus. <i>Science Translational Medicine</i> , 2015, 7, 274ra18.	12.4	502
2	Heme Oxygenase-1 Modulates Early Inflammatory Responses. <i>American Journal of Pathology</i> , 2004, 165, 1045-1053.	3.8	393
3	Large-scale genetic fine mapping and genotype-phenotype associations implicate polymorphism in the IL2RA region in type 1 diabetes. <i>Nature Genetics</i> , 2007, 39, 1074-1082.	21.4	380
4	Plasticity of Human Regulatory T Cells in Healthy Subjects and Patients with Type 1 Diabetes. <i>Journal of Immunology</i> , 2011, 186, 3918-3926.	0.8	376
5	A functional variant of SUMO4, a new I $\epsilon$ B $\mu$ modifier, is associated with type 1 diabetes. <i>Nature Genetics</i> , 2004, 36, 837-841.	21.4	369
6	Functional Defects and the Influence of Age on the Frequency of CD4 <sup>+</sup> CD25 <sup>+</sup> T-Cells in Type 1 Diabetes. <i>Diabetes</i> , 2005, 54, 1407-1414.	0.6	344
7	Expansion of Human Regulatory T-Cells From Patients With Type 1 Diabetes. <i>Diabetes</i> , 2009, 58, 652-662.	0.6	333
8	Human regulatory T cells: role in autoimmune disease and therapeutic opportunities. <i>Immunological Reviews</i> , 2008, 223, 371-390.	6.0	331
9	Introducing the Endotype Concept to Address the Challenge of Disease Heterogeneity in Type 1 Diabetes. <i>Diabetes Care</i> , 2020, 43, 5-12.	8.6	220
10	Divergent Phenotypes of Human Regulatory T Cells Expressing the Receptors TIGIT and CD226. <i>Journal of Immunology</i> , 2015, 195, 145-155.	0.8	219
11	No Alterations in the Frequency of FOXP3 <sup>+</sup> Regulatory T-Cells in Type 1 Diabetes. <i>Diabetes</i> , 2007, 56, 604-612.	0.6	214
12	SARS-CoV-2 infection generates tissue-localized immunological memory in humans. <i>Science Immunology</i> , 2021, 6, eab19105.	11.9	147
13	Radial Artery Tonometry Demonstrates Arterial Stiffness in Children With Type 1 Diabetes. <i>Diabetes Care</i> , 2004, 27, 2911-2917.	8.6	141
14	Anti-thymocyte globulin/G-CSF treatment preserves $\beta$ cell function in patients with established type 1 diabetes. <i>Journal of Clinical Investigation</i> , 2015, 125, 448-455.	8.2	140
15	Human Antigen-Specific Regulatory T Cells Generated by T Cell Receptor Gene Transfer. <i>PLoS ONE</i> , 2010, 5, e11726.	2.5	139
16	Autologous umbilical cord blood infusion for type 1 diabetes. <i>Experimental Hematology</i> , 2008, 36, 710-715.	0.4	136
17	Human Treg responses allow sustained recombinant adeno-associated virus-mediated transgene expression. <i>Journal of Clinical Investigation</i> , 2013, 123, 5310-5318.	8.2	133
18	Systemic Overexpression of IL-10 Induces CD4 <sup>+</sup> CD25 <sup>+</sup> Cell Populations In Vivo and Ameliorates Type 1 Diabetes in Nonobese Diabetic Mice in a Dose-Dependent Fashion. <i>Journal of Immunology</i> , 2003, 171, 2270-2278.	0.8	125

#	ARTICLE	IF	CITATIONS
19	Increased Natural CD4+CD25+ Regulatory T Cells and Their Suppressor Activity Do Not Contribute to Mortality in Murine Polymicrobial Sepsis. <i>Journal of Immunology</i> , 2006, 177, 7943-7949.	0.8	121
20	Retinoic Acid and Rapamycin Differentially Affect and Synergistically Promote the Ex Vivo Expansion of Natural Human T Regulatory Cells. <i>PLoS ONE</i> , 2011, 6, e15868.	2.5	118
21	An Integral Role for Heme Oxygenase-1 and Carbon Monoxide in Maintaining Peripheral Tolerance by CD4+CD25+ Regulatory T Cells. <i>Journal of Immunology</i> , 2005, 174, 5181-5186.	0.8	111
22	Central Role for Interleukin-2 in Type 1 Diabetes. <i>Diabetes</i> , 2012, 61, 14-22.	0.6	109
23	Tissue distribution and clonal diversity of the T and B cell repertoire in type 1 diabetes. <i>JCI Insight</i> , 2016, 1, e88242.	5.0	108
24	Suppression by CD4+CD25+ Regulatory T Cells Is Dependent on Expression of Heme Oxygenase-1 in Antigen-Presenting Cells. <i>American Journal of Pathology</i> , 2008, 173, 154-160.	3.8	107
25	Immune modulation of effector CD4+ and regulatory T cell function by sorafenib in patients with hepatocellular carcinoma. <i>Cancer Immunology, Immunotherapy</i> , 2013, 62, 737-746.	4.2	106
26	Inhibition of glucose metabolism selectively targets autoreactive follicular helper T cells. <i>Nature Communications</i> , 2018, 9, 4369.	12.8	94
27	Adeno-Associated Virus-Mediated IL-10 Gene Therapy Inhibits Diabetes Recurrence in Syngeneic Islet Cell Transplantation of NOD Mice. <i>Diabetes</i> , 2003, 52, 708-716.	0.6	92
28	Autologous Umbilical Cord Blood Transfusion in Very Young Children With Type 1 Diabetes. <i>Diabetes Care</i> , 2009, 32, 2041-2046.	8.6	87
29	A case of unfulfilled expectations. Cytokines in idiopathic minimal lesion nephrotic syndrome. <i>Pediatric Nephrology</i> , 2006, 21, 603-610.	1.7	85
30	Avidity and Bystander Suppressive Capacity of Human Regulatory T Cells Expressing De Novo Autoreactive T-Cell Receptors in Type 1 Diabetes. <i>Frontiers in Immunology</i> , 2017, 8, 1313.	4.8	81
31	Low-Dose Anti-Thymocyte Globulin Preserves C-Peptide, Reduces HbA1c, and Increases Regulatory to Conventional T-Cell Ratios in New-Onset Type 1 Diabetes: Two-Year Clinical Trial Data. <i>Diabetes</i> , 2019, 68, 1267-1276.	0.6	80
32	Murine Antithymocyte Globulin Therapy Alters Disease Progression in NOD Mice by a Time-Dependent Induction of Immunoregulation. <i>Diabetes</i> , 2008, 57, 405-414.	0.6	74
33	<i>Lactobacillus johnsonii</i> N6.2 Modulates the Host Immune Responses: A Double-Blind, Randomized Trial in Healthy Adults. <i>Frontiers in Immunology</i> , 2017, 8, 655.	4.8	73
34	A Mutation in the Transcription Factor Foxp3 Drives T Helper 2 Effector Function in Regulatory T Cells. <i>Immunity</i> , 2019, 50, 362-377.e6.	14.3	72
35	Adiponectin and Leptin Concentrations May Aid in Discriminating Disease Forms in Children and Adolescents With Type 1 and Type 2 Diabetes. <i>Diabetes Care</i> , 2004, 27, 2010-2014.	8.6	69
36	Antithymocyte Globulin Plus G-CSF Combination Therapy Leads to Sustained Immunomodulatory and Metabolic Effects in a Subset of Responders With Established Type 1 Diabetes. <i>Diabetes</i> , 2016, 65, 3765-3775.	0.6	62

#	ARTICLE	IF	CITATIONS
37	Expansion of Human Tregs from Cryopreserved Umbilical Cord Blood for GMP-Compliant Autologous Adoptive Cell Transfer Therapy. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017, 4, 178-191.	4.1	62
38	Autologous Umbilical Cord Blood Transfusion in Young Children With Type 1 Diabetes Fails to Preserve C-Peptide. <i>Diabetes Care</i> , 2011, 34, 2567-2569.	8.6	61
39	Ex vivo expanded autologous polyclonal regulatory T cells suppress inhibitor formation in hemophilia. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014, 1, 14030.	4.1	59
40	Application of a Genetic Risk Score to Racially Diverse Type 1 Diabetes Populations Demonstrates the Need for Diversity in Risk-Modeling. <i>Scientific Reports</i> , 2018, 8, 4529.	3.3	59
41	Influence of Membrane CD25 Stability on T Lymphocyte Activity: Implications for Immunoregulation. <i>PLoS ONE</i> , 2009, 4, e7980.	2.5	59
42	Dual-Sized Microparticle System for Generating Suppressive Dendritic Cells Prevents and Reverses Type 1 Diabetes in the Nonobese Diabetic Mouse Model. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2631-2646.	5.2	58
43	Strategies for durable $\beta$ cell replacement in type 1 diabetes. <i>Science</i> , 2021, 373, 516-522.	12.6	57
44	Type 1 Interferons Potentiate Human CD8+ T-Cell Cytotoxicity Through a STAT4- and Granzyme B-Dependent Pathway. <i>Diabetes</i> , 2017, 66, 3061-3071.	0.6	56
45	Cross-reactive public TCR sequences undergo positive selection in the human thymic repertoire. <i>Journal of Clinical Investigation</i> , 2019, 129, 2446-2462.	8.2	55
46	Combinatorial delivery of immunosuppressive factors to dendritic cells using dual-sized microspheres. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2562-2574.	5.8	53
47	Assessing the In Vitro Suppressive Capacity of Regulatory T Cells. <i>Immunological Investigations</i> , 2007, 36, 607-628.	2.0	51
48	Standardizing T-Cell Biomarkers in Type 1 Diabetes: Challenges and Recent Advances. <i>Diabetes</i> , 2019, 68, 1366-1379.	0.6	49
49	Treg in type 1 diabetes. <i>Cell Biochemistry and Biophysics</i> , 2007, 48, 165-175.	1.8	47
50	Autologous Umbilical Cord Blood Infusion followed by Oral Docosahexaenoic Acid and Vitamin D Supplementation for C-Peptide Preservation in Children with Type 1 Diabetes. <i>Biology of Blood and Marrow Transplantation</i> , 2013, 19, 1126-1129.	2.0	47
51	Clinical application of regulatory T cells for treatment of type 1 diabetes and transplantation. <i>European Journal of Immunology</i> , 2008, 38, 931-934.	2.9	43
52	Minimum Information about T Regulatory Cells: A Step toward Reproducibility and Standardization. <i>Frontiers in Immunology</i> , 2017, 8, 1844.	4.8	43
53	Comparing Beta Cell Preservation Across Clinical Trials in Recent-Onset Type 1 Diabetes. <i>Diabetes Technology and Therapeutics</i> , 2020, 22, 948-953.	4.4	41
54	Serum Trypsinogen Levels in Type 1 Diabetes. <i>Diabetes Care</i> , 2017, 40, 577-582.	8.6	40

#	ARTICLE	IF	CITATIONS
55	Presence of Diabetes-Inhibiting, Glutamic Acid Decarboxylase-Specific, IL-10-Dependent, Regulatory T Cells in Naive Nonobese Diabetic Mice. <i>Journal of Immunology</i> , 2004, 173, 6777-6785.	0.8	38
56	Metformin Inhibits the Type 1 IFN Response in Human CD4+ T Cells. <i>Journal of Immunology</i> , 2019, 203, 338-348.	0.8	37
57	Exendin-4 Therapy in NOD Mice with New-Onset Diabetes Increases Regulatory T Cell Frequency. <i>Annals of the New York Academy of Sciences</i> , 2008, 1150, 152-156.	3.8	36
58	Innate inflammation drives NK cell activation to impair Treg activity. <i>Journal of Autoimmunity</i> , 2020, 108, 102417.	6.5	36
59	The immuneML ecosystem for machine learning analysis of adaptive immune receptor repertoires. <i>Nature Machine Intelligence</i> , 2021, 3, 936-944.	16.0	35
60	T cells display mitochondria hyperpolarization in human type 1 diabetes. <i>Scientific Reports</i> , 2017, 7, 10835.	3.3	34
61	Heterogeneity of human anti-viral immunity shaped by virus, tissue, age, and sex. <i>Cell Reports</i> , 2021, 37, 110071.	6.4	34
62	Lipid and Lipoprotein Dysregulation in Sepsis: Clinical and Mechanistic Insights into Chronic Critical Illness. <i>Journal of Clinical Medicine</i> , 2021, 10, 1693.	2.4	32
63	Single-Cell RNA-seq of Human Myeloid-Derived Suppressor Cells in Late Sepsis Reveals Multiple Subsets With Unique Transcriptional Responses: A Pilot Study. <i>Shock</i> , 2021, 55, 587-595.	2.1	32
64	Defective response of CD4+ T cells to retinoic acid and TGF $\beta$ 2 in systemic lupus erythematosus. <i>Arthritis Research and Therapy</i> , 2011, 13, R106.	3.5	31
65	The Lupus Susceptibility Gene <i>Pbx1</i> Regulates the Balance between Follicular Helper T Cell and Regulatory T Cell Differentiation. <i>Journal of Immunology</i> , 2016, 197, 458-469.	0.8	30
66	Immune Mechanisms and Pathways Targeted in Type 1 Diabetes. <i>Current Diabetes Reports</i> , 2018, 18, 90.	4.2	29
67	Insulin-Like Growth Factor Dysregulation Both Preceding and Following Type 1 Diabetes Diagnosis. <i>Diabetes</i> , 2020, 69, 413-423.	0.6	29
68	CAR- and TRuC-redirected regulatory T cells differ in capacity to control adaptive immunity to FVIII. <i>Molecular Therapy</i> , 2021, 29, 2660-2676.	8.2	28
69	Interferon- $\beta$ Limits Diabetogenic CD8+ T-Cell Effector Responses in Type 1 Diabetes. <i>Diabetes</i> , 2017, 66, 710-721.	0.6	26
70	T Cell Receptor Profiling in Type 1 Diabetes. <i>Current Diabetes Reports</i> , 2017, 17, 118.	4.2	26
71	De-coding genetic risk variants in type 1 diabetes. <i>Immunology and Cell Biology</i> , 2021, 99, 496-508.	2.3	26
72	Human Pancreatic Cancer Cells Induce a MyD88-Dependent Stromal Response to Promote a Tumor-Tolerant Immune Microenvironment. <i>Cancer Research</i> , 2017, 77, 672-683.	0.9	24

#	ARTICLE	IF	CITATIONS
73	Influence of host immunoregulatory genes, ER stress and gut microbiota on the shared pathogenesis of inflammatory bowel disease and Type 1 diabetes. <i>Immunotherapy</i> , 2013, 5, 1357-1366.	2.0	23
74	Human Regulatory T Cells From Umbilical Cord Blood Display Increased Repertoire Diversity and Lineage Stability Relative to Adult Peripheral Blood. <i>Frontiers in Immunology</i> , 2020, 11, 611.	4.8	23
75	PANDER-induced cell-death genetic networks in islets reveal central role for caspase-3 and cyclin-dependent kinase inhibitor 1A (p21). <i>Gene</i> , 2006, 369, 134-141.	2.2	22
76	The autoimmune disease-associated SNP rs917997 of IL18RAP controls IFN $\gamma$ production by PBMC. <i>Journal of Autoimmunity</i> , 2013, 44, 8-12.	6.5	22
77	Combination Therapy Reverses Hyperglycemia in NOD Mice With Established Type 1 Diabetes. <i>Diabetes</i> , 2015, 64, 3873-3884.	0.6	22
78	CD226 Deletion Reduces Type 1 Diabetes in the NOD Mouse by Impairing Thymocyte Development and Peripheral T Cell Activation. <i>Frontiers in Immunology</i> , 2020, 11, 2180.	4.8	21
79	Mesenchymal Stem Cells: A Potential Border Patrol for Transplanted Islets?. <i>Diabetes</i> , 2009, 58, 1728-1729.	0.6	20
80	Exocrine Pancreatic Enzymes Are a Serological Biomarker for Type 1 Diabetes Staging and Pancreas Size. <i>Diabetes</i> , 2021, 70, 944-954.	0.6	20
81	Synchronization of the Normal Human Peripheral Immune System: A Comprehensive Circadian Systems Immunology Analysis. <i>Scientific Reports</i> , 2020, 10, 672.	3.3	19
82	Autologous Regulatory T Cells for the Treatment of Type 1 Diabetes. <i>Current Diabetes Reports</i> , 2012, 12, 623-632.	4.2	18
83	Immunomodulatory Dual-Sized Microparticle System Conditions Human Antigen Presenting Cells Into a Tolerogenic Phenotype In Vitro and Inhibits Type 1 Diabetes-Specific Autoreactive T Cell Responses. <i>Frontiers in Immunology</i> , 2020, 11, 574447.	4.8	18
84	Isogenic Cellular Systems Model the Impact of Genetic Risk Variants in the Pathogenesis of Type 1 Diabetes. <i>Frontiers in Endocrinology</i> , 2017, 8, 276.	3.5	17
85	A Novel Single Cell RNA-seq Analysis of Non-Myeloid Circulating Cells in Late Sepsis. <i>Frontiers in Immunology</i> , 2021, 12, 696536.	4.8	17
86	A hypolipoprotein sepsis phenotype indicates reduced lipoprotein antioxidant capacity, increased endothelial dysfunction and organ failure, and worse clinical outcomes. <i>Critical Care</i> , 2021, 25, 341.	5.8	17
87	TCR+/BCR+ dual-expressing cells and their associated public BCR clonotype are not enriched in type 1 diabetes. <i>Cell</i> , 2021, 184, 827-839.e14.	28.9	16
88	CFTR mutations impart elevated immune reactivity in a murine model of cystic fibrosis related diabetes. <i>Cytokine</i> , 2008, 44, 154-159.	3.2	15
89	geneBasis: an iterative approach for unsupervised selection of targeted gene panels from scRNA-seq. <i>Genome Biology</i> , 2021, 22, 333.	8.8	15
90	Clinical Applications of Regulatory T cells in Adoptive Cell Therapies. <i>Cell &amp; Gene Therapy Insights</i> , 2018, 4, 405-429.	0.1	14

#	ARTICLE	IF	CITATIONS
91	Autoreactive T cell receptors with shared germline-like $\hat{\pm}$ chains in type 1 diabetes. JCI Insight, 2021, 6, .	5.0	14
92	Serum levels of soluble CD25 as a marker for hepatocellular carcinoma. Oncology Letters, 2012, 4, 840-846.	1.8	13
93	Characterization of Proinsulin T Cell Epitopes Restricted by Type 1 Diabetes-Associated HLA Class II Molecules. Journal of Immunology, 2020, 204, 2349-2359.	0.8	13
94	Reduced Follicular Regulatory T Cells in Spleen and Pancreatic Lymph Nodes of Patients With Type 1 Diabetes. Diabetes, 2021, 70, 2892-2902.	0.6	12
95	Low-Dose ATG/GCSF in Established Type 1 Diabetes: A Five-Year Follow-up Report. Diabetes, 2021, 70, 1123-1129.	0.6	11
96	Lupus susceptibility gene Esrrg modulates regulatory T cells through mitochondrial metabolism. JCI Insight, 2021, 6, .	5.0	11
97	The Immunoregulatory Role of the Signal Regulatory Protein Family and CD47 Signaling Pathway in Type 1 Diabetes. Frontiers in Immunology, 2021, 12, 739048.	4.8	11
98	Immunophenotyping reveals distinct subgroups of lupus patients based on their activated T cell subsets. Clinical Immunology, 2020, 221, 108602.	3.2	10
99	Guidelines for standardizing T-cell cytometry assays to link biomarkers, mechanisms, and disease outcomes in type 1 diabetes. European Journal of Immunology, 2022, 52, 372-388.	2.9	10
100	A checkpoint on innate myeloid cells in pulmonary arterial hypertension. Pulmonary Circulation, 2019, 9, 1-5.	1.7	9
101	Oral therapy with colonization factor antigen I prevents development of type 1 diabetes in Non-obese Diabetic mice. Scientific Reports, 2020, 10, 6156.	3.3	9
102	Infant T cells are developmentally adapted for robust lung immune responses through enhanced T cell receptor signaling. Science Immunology, 2021, 6, eabj0789.	11.9	9
103	Genetic Composition and Autoantibody Titers Model the Probability of Detecting C-Peptide Following Type 1 Diabetes Diagnosis. Diabetes, 2021, 70, 932-943.	0.6	8
104	Use of Induced Pluripotent Stem Cells to Build Isogenic Systems and Investigate Type 1 Diabetes. Frontiers in Endocrinology, 2021, 12, 737276.	3.5	8
105	An anti-CRF antibody suppresses the HPA axis and reverses stress-induced phenotypes. Journal of Experimental Medicine, 2019, 216, 2479-2491.	8.5	7
106	Pleiotropic roles of the insulin-like growth factor axis in type 1 diabetes. Current Opinion in Endocrinology, Diabetes and Obesity, 2019, 26, 188-194.	2.3	7
107	Overexpression of the <i>PTPN22</i> Autoimmune Risk Variant LYP-620W Fails to Restrain Human CD4+ T Cell Activation. Journal of Immunology, 2021, 207, 849-859.	0.8	7
108	Improving the Prediction of Type 1 Diabetes Across Ancestries. Diabetes Care, 2022, 45, e48-e50.	8.6	7

#	ARTICLE	IF	CITATIONS
109	Regulatory T cells directed to the site of the action. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20553-20554.	7.1	6
110	CD70 Inversely Regulates Regulatory T Cells and Invariant NKT Cells and Modulates Type 1 Diabetes in NOD Mice. Journal of Immunology, 2020, 205, 1763-1777.	0.8	6
111	Myeloid-Derived Suppressor Cells and Pulmonary Hypertension. International Journal of Molecular Sciences, 2018, 19, 2277.	4.1	5
112	Human CD4+CD25+CD226- Tregs Demonstrate Increased Purity, Lineage Stability, and Suppressive Capacity Versus CD4+CD25+CD127lo/- Tregs for Adoptive Cell Therapy. Frontiers in Immunology, 2022, 13, .	4.8	5
113	A Novel Mutation in Insulin-Like Growth Factor 1 Receptor (c.641-2A&#x3e;G) Is Associated with Impaired Growth, Hypoglycemia, and Modified Immune Phenotypes. Hormone Research in Paediatrics, 2020, 93, 322-334.	1.8	3
114	Teaching Type 1 Diabetes: Creating Stakeholder Engagement in Biomedical Careers Through Undergraduate Research Curriculum. Medical Science Educator, 2020, 30, 69-73.	1.5	1
115	Suppression of Inhibitor Formation in Protein and Gene Therapy for Hemophilia Using Ex Vivo Expanded Treg. Blood, 2012, 120, 13-13.	1.4	1
116	Editorial: Footprints of Immune Cells in the Type 1 Diabetic Pancreas. Frontiers in Endocrinology, 2021, 12, 767012.	3.5	0