Todd M Brusko

List of Publications by Year
in descending order

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116	8,347	53794	49909
papers	citations	45 h-index	87 g-index

125	125	125	10121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for standardizing Tâ€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
2	Improving the Prediction of Type 1 Diabetes Across Ancestries. Diabetes Care, 2022, 45, e48-e50.	8.6	7
3	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
4	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
5	Exocrine Pancreatic Enzymes Are a Serological Biomarker for Type 1 Diabetes Staging and Pancreas Size. Diabetes, 2021, 70, 944-954.	0.6	20
6	Deâ€coding genetic risk variants in type 1 diabetes. Immunology and Cell Biology, 2021, 99, 496-508.	2.3	26
7	Low-Dose ATG/GCSF in Established Type 1 Diabetes: A Five-Year Follow-up Report. Diabetes, 2021, 70, 1123-1129.	0.6	11
8	TCR+/BCR+ dual-expressing cells and their associated public BCR clonotype are not enriched in type 1 diabetes. Cell, 2021, 184, 827-839.e14.	28.9	16
9	Lipid and Lipoprotein Dysregulation in Sepsis: Clinical and Mechanistic Insights into Chronic Critical Illness. Journal of Clinical Medicine, 2021, 10, 1693.	2.4	32
10	Strategies for durable Î² cell replacement in type 1 diabetes. Science, 2021, 373, 516-522.	12.6	57
11	Overexpression of the PTPN22 Autoimmune Risk Variant LYP-620W Fails to Restrain Human CD4+ T Cell Activation. Journal of Immunology, 2021, 207, 849-859.	0.8	7
12	Lupus susceptibility gene Esrrg modulates regulatory T cells through mitochondrial metabolism. JCI Insight, 2021, 6, .	5.0	11
13	A Novel Single Cell RNA-seq Analysis of Non-Myeloid Circulating Cells in Late Sepsis. Frontiers in Immunology, 2021, 12, 696536.	4.8	17
14	CAR- and TRuC-redirected regulatory T cells differ in capacity to control adaptive immunity to FVIII. Molecular Therapy, 2021, 29, 2660-2676.	8.2	28
15	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
16	A hypolipoprotein sepsis phenotype indicates reduced lipoprotein antioxidant capacity, increased endothelial dysfunction and organ failure, and worse clinical outcomes. Critical Care, 2021, 25, 341.	5.8	17
17	Single-Cell RNA-seq of Human Myeloid-Derived Suppressor Cells in Late Sepsis Reveals Multiple Subsets With Unique Transcriptional Responses: A Pilot Study. Shock, 2021, 55, 587-595.	2.1	32
18	Editorial: Footprints of Immune Cells in the Type 1 Diabetic Pancreas. Frontiers in Endocrinology, 2021, 12, 767012.	3.5	0

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19	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
20	SARS-CoV-2 infection generates tissue-localized immunological memory in humans. Science Immunology, 2021, 6, eabl9105.	11.9	147
21	Use of Induced Pluripotent Stem Cells to Build Isogenic Systems and Investigate Type 1 Diabetes. Frontiers in Endocrinology, 2021, 12, 737276.	3.5	8
22	Heterogeneity of human anti-viral immunity shaped by virus, tissue, age, and sex. Cell Reports, 2021, 37, 110071.	6.4	34
23	The immuneML ecosystem for machine learning analysis of adaptive immune receptor repertoires. Nature Machine Intelligence, 2021, 3, 936-944.	16.0	35
24	Autoreactive T cell receptors with shared germline-like Î± chains in type 1 diabetes. JCI Insight, 2021, 6, .	5.0	14
25	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
26	geneBasis: an iterative approach for unsupervised selection of targeted gene panels from scRNA-seq. Genome Biology, 2021, 22, 333.	8.8	15
27	Teaching Type 1 Diabetes: Creating Stakeholder Engagement in Biomedical Careers Through Undergraduate Research Curriculum. Medical Science Educator, 2020, 30, 69-73.	1.5	1
28	Insulin-Like Growth Factor Dysregulation Both Preceding and Following Type 1 Diabetes Diagnosis. Diabetes, 2020, 69, 413-423.	0.6	29
29	Introducing the Endotype Concept to Address the Challenge of Disease Heterogeneity in Type 1 Diabetes. Diabetes Care, 2020, 43, 5-12.	8.6	220
30	CD226 Deletion Reduces Type 1 Diabetes in the NOD Mouse by Impairing Thymocyte Development and Peripheral T Cell Activation. Frontiers in Immunology, 2020, 11, 2180.	4.8	21
31	Immunophenotyping reveals distinct subgroups of lupus patients based on their activated T cell subsets. Clinical Immunology, 2020, 221, 108602.	3.2	10
32	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. Frontiers in Immunology, 2020, 11, 574447.	4.8	18
33	A Novel Mutation in Insulin-Like Growth Factor 1 Receptor (c.641-2A>G) Is Associated with Impaired Growth, Hypoglycemia, and Modified Immune Phenotypes. Hormone Research in Paediatrics, 2020, 93, 322-334.	1.8	3
34	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
35	Comparing Beta Cell Preservation Across Clinical Trials in Recent-Onset Type 1 Diabetes. Diabetes Technology and Therapeutics, 2020, 22, 948-953.	4.4	41
36	Human Regulatory T Cells From Umbilical Cord Blood Display Increased Repertoire Diversity and Lineage Stability Relative to Adult Peripheral Blood. Frontiers in Immunology, 2020, 11, 611.	4.8	23

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37	Characterization of Proinsulin T Cell Epitopes Restricted by Type 1 Diabetesâ€“Associated HLA Class II Molecules. Journal of Immunology, 2020, 204, 2349-2359.	0.8	13
38	Synchronization of the Normal Human Peripheral Immune System: A Comprehensive Circadian Systems Immunology Analysis. Scientific Reports, 2020, 10, 672.	3.3	19
39	Innate inflammation drives NK cell activation to impair Treg activity. Journal of Autoimmunity, 2020, 108, 102417.	6.5	36
40	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
41	Standardizing T-Cell Biomarkers in Type 1 Diabetes: Challenges and Recent Advances. Diabetes, 2019, 68, 1366-1379.	0.6	49
42	A Mutation in the Transcription Factor Foxp3 Drives T Helper 2 Effector Function in Regulatory T Cells. Immunity, 2019, 50, 362-377.e6.	14.3	72
43	Metformin Inhibits the Type 1 IFN Response in Human CD4+ T Cells. Journal of Immunology, 2019, 203, 338-348.	0.8	37
44	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. Diabetes, 2019, 68, 1267-1276.	0.6	80
45	Dual-Sized Microparticle System for Generating Suppressive Dendritic Cells Prevents and Reverses Type 1 Diabetes in the Nonobese Diabetic Mouse Model. ACS Biomaterials Science and Engineering, 2019, 5, 2631-2646.	5.2	58
46	An anti-CRF antibody suppresses the HPA axis and reverses stress-induced phenotypes. Journal of Experimental Medicine, 2019, 216, 2479-2491.	8.5	7
47	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
48	A checkpoint on innate myeloid cells in pulmonary arterial hypertension. Pulmonary Circulation, 2019, 9, 1-5.	1.7	9
49	Cross-reactive public TCR sequences undergo positive selection in the human thymic repertoire. Journal of Clinical Investigation, 2019, 129, 2446-2462.	8.2	55
50	Application of a Genetic Risk Score to Racially Diverse Type 1 Diabetes Populations Demonstrates the Need for Diversity in Risk-Modeling. Scientific Reports, 2018, 8, 4529.	3.3	59
51	Inhibition of glucose metabolism selectively targets autoreactive follicular helper T cells. Nature Communications, 2018, 9, 4369.	12.8	94
52	Immune Mechanisms and Pathways Targeted in Type 1 Diabetes. Current Diabetes Reports, 2018, 18, 90.	4.2	29
53	Myeloid-Derived Suppressor Cells and Pulmonary Hypertension. International Journal of Molecular Sciences, 2018, 19, 2277.	4.1	5
54	Clinical Applications of Regulatory T cells in Adoptive Cell Therapies. Cell & Gene Therapy Insights, 2018, 4, 405-429.	0.1	14

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55	Expansion of Human Tregs from Cryopreserved Umbilical Cord Blood for GMP-Compliant Autologous Adoptive Cell Transfer Therapy. Molecular Therapy - Methods and Clinical Development, 2017, 4, 178-191.	4.1	62
56	Serum Trypsinogen Levels in Type 1 Diabetes. Diabetes Care, 2017, 40, 577-582.	8.6	40
57	Interferon-Î³ Limits Diabetogenic CD8+ T-Cell Effector Responses in Type 1 Diabetes. Diabetes, 2017, 66, 710-721.	0.6	26
58	T Cell Receptor Profiling in Type 1 Diabetes. Current Diabetes Reports, 2017, 17, 118.	4.2	26
59	Type 1 Interferons Potentiate Human CD8+ T-Cell Cytotoxicity Through a STAT4- and Granzyme Bâ€“Dependent Pathway. Diabetes, 2017, 66, 3061-3071.	0.6	56
60	T cells display mitochondria hyperpolarization in human type 1 diabetes. Scientific Reports, 2017, 7, 10835.	3.3	34
61	Human Pancreatic Cancer Cells Induce a MyD88-Dependent Stromal Response to Promote a Tumor-Tolerant Immune Microenvironment. Cancer Research, 2017, 77, 672-683.	0.9	24
62	Isogenic Cellular Systems Model the Impact of Genetic Risk Variants in the Pathogenesis of Type 1 Diabetes. Frontiers in Endocrinology, 2017, 8, 276.	3.5	17
63	Lactobacillus johnsonii N6.2 Modulates the Host Immune Responses: A Double-Blind, Randomized Trial in Healthy Adults. Frontiers in Immunology, 2017, 8, 655.	4.8	73
64	Avidity and Bystander Suppressive Capacity of Human Regulatory T Cells Expressing De Novo Autoreactive T-Cell Receptors in Type 1 Diabetes. Frontiers in Immunology, 2017, 8, 1313.	4.8	81
65	Minimum Information about T Regulatory Cells: A Step toward Reproducibility and Standardization. Frontiers in Immunology, 2017, 8, 1844.	4.8	43
66	Antithymocyte Globulin Plus G-CSF Combination Therapy Leads to Sustained Immunomodulatory and Metabolic Effects in a Subset of Responders With Established Type 1 Diabetes. Diabetes, 2016, 65, 3765-3775.	0.6	62
67	The Lupus Susceptibility Gene Pbx1 Regulates the Balance between Follicular Helper T Cell and Regulatory T Cell Differentiation. Journal of Immunology, 2016, 197, 458-469.	0.8	30
68	Tissue distribution and clonal diversity of the T and B cell repertoire in type 1 diabetes. JCI Insight, 2016, 1, e88242.	5.0	108
69	Divergent Phenotypes of Human Regulatory T Cells Expressing the Receptors TIGIT and CD226. Journal of Immunology, 2015, 195, 145-155.	0.8	219
70	Combination Therapy Reverses Hyperglycemia in NOD Mice With Established Type 1 Diabetes. Diabetes, 2015, 64, 3873-3884.	0.6	22
71	Normalization of CD4 ⁺ T cell metabolism reverses lupus. Science Translational Medicine, 2015, 7, 274ra18.	12.4	502
72	Anti-thymocyte globulin/G-CSF treatment preserves Î² cell function in patients with established type 1 diabetes. Journal of Clinical Investigation, 2015, 125, 448-455.	8.2	140

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73	Ex vivo expanded autologous polyclonal regulatory T cells suppress inhibitor formation in hemophilia. Molecular Therapy - Methods and Clinical Development, 2014, 1, 14030.	4.1	59
74	Combinatorial delivery of immunosuppressive factors to dendritic cells using dual-sized microspheres. Journal of Materials Chemistry B, 2014, 2, 2562-2574.	5.8	53
75	Immune modulation of effector CD4+ and regulatory T cell function by sorafenib in patients with hepatocellular carcinoma. Cancer Immunology, Immunotherapy, 2013, 62, 737-746.	4.2	106
76	The autoimmune disease-associated SNP rs917997 of IL18RAP controls IFNÎ³ production by PBMC. Journal of Autoimmunity, 2013, 44, 8-12.	6.5	22
77	Autologous Umbilical Cord Blood Infusion followed by Oral Docosahexaenoic Acid and Vitamin D Supplementation for C-Peptide Preservation in Children with Type 1 Diabetes. Biology of Blood and Marrow Transplantation, 2013, 19, 1126-1129.	2.0	47
78	Influence of host immunoregulatory genes, ER stress and gut microbiota on the shared pathogenesis of inflammatory bowel disease and Type 1 diabetes. Immunotherapy, 2013, 5, 1357-1366.	2.0	23
79	Human Treg responses allow sustained recombinant adeno-associated virusâ€“mediated transgene expression. Journal of Clinical Investigation, 2013, 123, 5310-5318.	8.2	133
80	Central Role for Interleukin-2 in Type 1 Diabetes. Diabetes, 2012, 61, 14-22.	0.6	109
81	Autologous Regulatory T Cells for the Treatment of Type 1 Diabetes. Current Diabetes Reports, 2012, 12, 623-632.	4.2	18
82	Serum levels of soluble CD25 as a marker for hepatocellular carcinoma. Oncology Letters, 2012, 4, 840-846.	1.8	13
83	Suppression of Inhibitor Formation in Protein and Gene Therapy for Hemophilia Using Ex Vivo Expanded Treg. Blood, 2012, 120, 13-13.	1.4	1
84	Defective response of CD4+ T cells to retinoic acid and TGFÎ² in systemic lupus erythematosus. Arthritis Research and Therapy, 2011, 13, R106.	3.5	31
85	Autologous Umbilical Cord Blood Transfusion in Young Children With Type 1 Diabetes Fails to Preserve C-Peptide. Diabetes Care, 2011, 34, 2567-2569.	8.6	61
86	Plasticity of Human Regulatory T Cells in Healthy Subjects and Patients with Type 1 Diabetes. Journal of Immunology, 2011, 186, 3918-3926.	0.8	376
87	Retinoic Acid and Rapamycin Differentially Affect and Synergistically Promote the Ex Vivo Expansion of Natural Human T Regulatory Cells. PLoS ONE, 2011, 6, e15868.	2.5	118
88	Human Antigen-Specific Regulatory T Cells Generated by T Cell Receptor Gene Transfer. PLoS ONE, 2010, 5, e11726.	2.5	139
89	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
90	Mesenchymal Stem Cells: A Potential Border Patrol for Transplanted Islets?. Diabetes, 2009, 58, 1728-1729.	0.6	20

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91	Expansion of Human Regulatory T-Cells From Patients With Type 1 Diabetes. Diabetes, 2009, 58, 652-662.	0.6	333
92	Autologous Umbilical Cord Blood Transfusion in Very Young Children With Type 1 Diabetes. Diabetes Care, 2009, 32, 2041-2046.	8.6	87
93	Influence of Membrane CD25 Stability on T Lymphocyte Activity: Implications for Immunoregulation. PLoS ONE, 2009, 4, e7980.	2.5	59
94	Clinical application of regulatory T cells for treatment of type 1 diabetes and transplantation. European Journal of Immunology, 2008, 38, 931-934.	2.9	43
95	Exendinâ€4 Therapy in NOD Mice with Newâ€Onset Diabetes Increases Regulatory T Cell Frequency. Annals of the New York Academy of Sciences, 2008, 1150, 152-156.	3.8	36
96	Human regulatory T cells: role in autoimmune disease and therapeutic opportunities. Immunological Reviews, 2008, 223, 371-390.	6.0	331
97	Autologous umbilical cord blood infusion for type 1 diabetes. Experimental Hematology, 2008, 36, 710-715.	0.4	136
98	CFTR mutations impart elevated immune reactivity in a murine model of cystic fibrosis related diabetes. Cytokine, 2008, 44, 154-159.	3.2	15
99	Suppression by CD4+CD25+ Regulatory T Cells Is Dependent on Expression of Heme Oxygenase-1 in Antigen-Presenting Cells. American Journal of Pathology, 2008, 173, 154-160.	3.8	107
100	Murine Antithymocyte Globulin Therapy Alters Disease Progression in NOD Mice by a Time-Dependent Induction of Immunoregulation. Diabetes, 2008, 57, 405-414.	0.6	74
101	Assessing theIn VitroSuppressive Capacity of Regulatory T Cells. Immunological Investigations, 2007, 36, 607-628.	2.0	51
102	Large-scale genetic fine mapping and genotype-phenotype associations implicate polymorphism in the IL2RA region in type 1 diabetes. Nature Genetics, 2007, 39, 1074-1082.	21.4	380
103	No Alterations in the Frequency of FOXP3+ Regulatory T-Cells in Type 1 Diabetes. Diabetes, 2007, 56, 604-612.	0.6	214
104	Treg in type 1 diabetes. Cell Biochemistry and Biophysics, 2007, 48, 165-175.	1.8	47
105	Increased Natural CD4+CD25+ Regulatory T Cells and Their Suppressor Activity Do Not Contribute to Mortality in Murine Polymicrobial Sepsis. Journal of Immunology, 2006, 177, 7943-7949.	0.8	121
106	PANDER-induced cell-death genetic networks in islets reveal central role for caspase-3 and cyclin-dependent kinase inhibitor 1A (p21). Gene, 2006, 369, 134-141.	2.2	22
107	A case of unfulfilled expectations. Cytokines in idiopathic minimal lesion nephrotic syndrome. Pediatric Nephrology, 2006, 21, 603-610.	1.7	85
108	Functional Defects and the Influence of Age on the Frequency of CD4+CD25+ T-Cells in Type 1 Diabetes. Diabetes, 2005, 54, 1407-1414.	0.6	344

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109	An Integral Role for Heme Oxygenase-1 and Carbon Monoxide in Maintaining Peripheral Tolerance by CD4+CD25+ Regulatory T Cells. Journal of Immunology, 2005, 174, 5181-5186.	0.8	111
110	Radial Artery Tonometry Demonstrates Arterial Stiffness in Children With Type 1 Diabetes. Diabetes Care, 2004, 27, 2911-2917.	8.6	141
111	Presence of Diabetes-Inhibiting, Glutamic Acid Decarboxylase-Specific, IL-10-Dependent, Regulatory T Cells in Naive Nonobese Diabetic Mice. Journal of Immunology, 2004, 173, 6777-6785.	0.8	38
112	Adiponectin and Leptin Concentrations May Aid in Discriminating Disease Forms in Children and Adolescents With Type 1 and Type 2 Diabetes. Diabetes Care, 2004, 27, 2010-2014.	8.6	69
113	A functional variant of SUMO4, a new Î²BÎ± modifier, is associated with type 1 diabetes. Nature Genetics, 2004, 36, 837-841.	21.4	369
114	Heme Oxygenase-1 Modulates Early Inflammatory Responses. American Journal of Pathology, 2004, 165, 1045-1053.	3.8	393
115	Systemic Overexpression of IL-10 Induces CD4+CD25+ Cell Populations In Vivo and Ameliorates Type 1 Diabetes in Nonobese Diabetic Mice in a Dose-Dependent Fashion. Journal of Immunology, 2003, 171, 2270-2278.	0.8	125
116	Adeno-Associated Virus-Mediated IL-10 Gene Therapy Inhibits Diabetes Recurrence in Syngeneic Islet Cell Transplantation of NOD Mice. Diabetes, 2003, 52, 708-716.	0.6	92