

Manuela Battaglia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

8,499
citations

42
h-index

92
g-index

107
ext. papers

9,545
ext. citations

7.8
avg, IF

5.87
L-index

#	Paper	IF	Citations
102	Interleukin-10-secreting type 1 regulatory T cells in rodents and humans. <i>Immunological Reviews</i> , 2006 , 212, 28-50	11.3	966
101	Rapamycin selectively expands CD4+CD25+FoxP3+ regulatory T cells. <i>Blood</i> , 2005 , 105, 4743-8	2.2	933
100	Rapamycin promotes expansion of functional CD4+CD25+FOXP3+ regulatory T cells of both healthy subjects and type 1 diabetic patients. <i>Journal of Immunology</i> , 2006 , 177, 8338-47	5.3	566
99	Th17 cells express interleukin-10 receptor and are controlled by Foxp3 ⁺ and Foxp3 ⁺ regulatory CD4 ⁺ T cells in an interleukin-10-dependent manner. <i>Immunity</i> , 2011 , 34, 554-65	32.3	441
98	Regulatory T-cell immunotherapy for tolerance to self antigens and alloantigens in humans. <i>Nature Reviews Immunology</i> , 2007 , 7, 585-98	36.5	418
97	Differentiation of type 1 T regulatory cells (Tr1) by tolerogenic DC-10 requires the IL-10-dependent ILT4/HLA-G pathway. <i>Blood</i> , 2010 , 116, 935-44	2.2	399
96	Human CD25+CD4 ⁺ T suppressor cell clones produce transforming growth factor beta, but not interleukin 10, and are distinct from type 1 T regulatory cells. <i>Journal of Experimental Medicine</i> , 2002 , 196, 1335-46	16.6	380
95	Tr1 cells: from discovery to their clinical application. <i>Seminars in Immunology</i> , 2006 , 18, 120-7	10.7	225
94	Targeting lentiviral vector expression to hepatocytes limits transgene-specific immune response and establishes long-term expression of human antihemophilic factor IX in mice. <i>Blood</i> , 2004 , 103, 3700-9	3.2	183
93	Expansion of Th17 cells and functional defects in T regulatory cells are key features of the pancreatic lymph nodes in patients with type 1 diabetes. <i>Diabetes</i> , 2011 , 60, 2903-13	0.9	162
92	Tr1 cells and the counter-regulation of immunity: natural mechanisms and therapeutic applications. <i>Current Topics in Microbiology and Immunology</i> , 2014 , 380, 39-68	3.3	161
91	WASP regulates suppressor activity of human and murine CD4(+)CD25(+)FOXP3(+) natural regulatory T cells. <i>Journal of Experimental Medicine</i> , 2007 , 204, 369-80	16.6	149
90	STAT5-signaling cytokines regulate the expression of FOXP3 in CD4+CD25+ regulatory T cells and CD4+CD25- effector T cells. <i>International Immunology</i> , 2008 , 20, 421-31	4.9	142
89	Reduction of circulating neutrophils precedes and accompanies type 1 diabetes. <i>Diabetes</i> , 2013 , 62, 2072-7	3.7	140
88	Induction of tolerance in type 1 diabetes via both CD4+CD25+ T regulatory cells and T regulatory type 1 cells. <i>Diabetes</i> , 2006 , 55, 1571-80	0.9	132
87	Cytotoxic and regulatory roles of mucosal-associated invariant T cells in type 1 diabetes. <i>Nature Immunology</i> , 2017 , 18, 1321-1331	19.1	127
86	The Biology of T Regulatory Type 1 Cells and Their Therapeutic Application in Immune-Mediated Diseases. <i>Immunity</i> , 2018 , 49, 1004-1019	32.3	123

85	Hurdles in therapy with regulatory T cells. <i>Science Translational Medicine</i> , 2015 , 7, 304ps18	17.5	114
84	Introducing the Endotype Concept to Address the Challenge of Disease Heterogeneity in Type 1 Diabetes. <i>Diabetes Care</i> , 2020 , 43, 5-12	14.6	111
83	Preculture of PBMCs at high cell density increases sensitivity of T-cell responses, revealing cytokine release by CD28 superagonist TGN1412. <i>Blood</i> , 2011 , 118, 6772-82	2.2	110
82	Rapamycin monotherapy in patients with type 1 diabetes modifies CD4+CD25+FOXP3+ regulatory T-cells. <i>Diabetes</i> , 2008 , 57, 2341-7	0.9	109
81	Islet-reactive CD8 T cell frequencies in the pancreas, but not in blood, distinguish type 1 diabetic patients from healthy donors. <i>Science Immunology</i> , 2018 , 3,	28	98
80	Sirolimus-based graft-versus-host disease prophylaxis promotes the in vivo expansion of regulatory T cells and permits peripheral blood stem cell transplantation from haploidentical donors. <i>Leukemia</i> , 2015 , 29, 396-405	10.7	98
79	Platelet factor 4 differentially modulates CD4+CD25+ (regulatory) versus CD4+CD25- (nonregulatory) T cells. <i>Journal of Immunology</i> , 2005 , 174, 2680-6	5.3	91
78	A hypomorphic R229Q Rag2 mouse mutant recapitulates human Omenn syndrome. <i>Journal of Clinical Investigation</i> , 2007 , 117, 1260-9	15.9	87
77	IL-10-producing T regulatory type 1 cells and oral tolerance. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1029, 142-53	6.5	80
76	Rapamycin inhibits relapsing experimental autoimmune encephalomyelitis by both effector and regulatory T cells modulation. <i>Journal of Neuroimmunology</i> , 2010 , 220, 52-63	3.5	75
75	Stability of human rapamycin-expanded CD4+CD25+ T regulatory cells. <i>Haematologica</i> , 2011 , 96, 1357-65	6.6	74
74	Rapamycin and interleukin-10 treatment induces T regulatory type 1 cells that mediate antigen-specific transplantation tolerance. <i>Diabetes</i> , 2006 , 55, 40-9	0.9	67
73	Abnormalities of the Exocrine Pancreas in Type 1 Diabetes. <i>Current Diabetes Reports</i> , 2015 , 15, 79	5.6	63
72	IL-10 Receptor Signaling Is Essential for TR1 Cell Function In Vivo. <i>Journal of Immunology</i> , 2017 , 198, 1130-1141	5.3	62
71	Immune depletion with cellular mobilization imparts immunoregulation and reverses autoimmune diabetes in nonobese diabetic mice. <i>Diabetes</i> , 2009 , 58, 2277-84	0.9	61
70	Antigen-specific dependence of Tr1-cell therapy in preclinical models of islet transplant. <i>Diabetes</i> , 2010 , 59, 433-9	0.9	60
69	A Type 1 Diabetes Genetic Risk Score Predicts Progression of Islet Autoimmunity and Development of Type 1 Diabetes in Individuals at Risk. <i>Diabetes Care</i> , 2018 , 41, 1887-1894	14.6	59
68	Low-Dose Anti-Thymocyte Globulin (ATG) Preserves β Cell Function and Improves HbA in New-Onset Type 1 Diabetes. <i>Diabetes Care</i> , 2018 , 41, 1917-1925	14.6	56

67	Abnormal neutrophil signature in the blood and pancreas of presymptomatic and symptomatic type 1 diabetes. <i>JCI Insight</i> , 2018 , 3,	9.9	50
66	Roles of the protein tyrosine phosphatase PTPN22 in immunity and autoimmunity. <i>Clinical Immunology</i> , 2013 , 149, 556-65	9	49
65	Expanding human T regulatory cells with the mTOR-inhibitor rapamycin. <i>Methods in Molecular Biology</i> , 2012 , 821, 279-93	1.4	48
64	CXCR1/2 inhibition blocks and reverses type 1 diabetes in mice. <i>Diabetes</i> , 2015 , 64, 1329-40	0.9	47
63	The streetlight effect in type 1 diabetes. <i>Diabetes</i> , 2015 , 64, 1081-90	0.9	46
62	Low-Dose Anti-Thymocyte Globulin Preserves C-Peptide, Reduces HbA _{1c} , 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	0.9	45
61	Immune intervention with T regulatory cells: past lessons and future perspectives for type 1 diabetes. <i>Seminars in Immunology</i> , 2011 , 23, 182-94	10.7	40
60	Understanding and preventing type 1 diabetes through the unique working model of TrialNet. <i>Diabetologia</i> , 2017 , 60, 2139-2147	10.3	39
59	The role of interleukin 10 in the control of autoimmunity. <i>Journal of Autoimmunity</i> , 2003 , 20, 269-72	15.5	38
58	Transplant tolerance to pancreatic islets is initiated in the graft and sustained in the spleen. <i>American Journal of Transplantation</i> , 2013 , 13, 1963-75	8.7	35
57	Minimum Information about T Regulatory Cells: A Step toward Reproducibility and Standardization. <i>Frontiers in Immunology</i> , 2017 , 8, 1844	8.4	34
56	Regulatory T-cells from pancreatic lymphnodes of patients with type-1 diabetes express increased levels of microRNA miR-125a-5p that limits CCR2 expression. <i>Scientific Reports</i> , 2017 , 7, 6897	4.9	34
55	Rapamycin prevents and breaks the anti-CD3-induced tolerance in NOD mice. <i>Diabetes</i> , 2009 , 58, 875-81	0.9	34
54	The Tregs' world according to GARP. <i>European Journal of Immunology</i> , 2009 , 39, 3296-300	6.1	34
53	Rapamycin combined with anti-CD45RB mAb and IL-10 or with G-CSF induces tolerance in a stringent mouse model of islet transplantation. <i>PLoS ONE</i> , 2011 , 6, e28434	3.7	33
52	Neutrophils and type 1 autoimmune diabetes. <i>Current Opinion in Hematology</i> , 2014 , 21, 8-15	3.3	31
51	Generation of donor-specific Tr1 cells to be used after kidney transplantation and definition of the timing of their in vivo infusion in the presence of immunosuppression. <i>Journal of Translational Medicine</i> , 2017 , 15, 40	8.5	30
50	The immune response to lentiviral-delivered transgene is modulated in vivo by transgene-expressing antigen-presenting cells but not by CD4 ⁺ CD25 ⁺ regulatory T cells. <i>Blood</i> , 2007 , 110, 1788-96	2.2	29

49	Allogeneic mesoangioblasts give rise to alpha-sarcoglycan expressing fibers when transplanted into dystrophic mice. <i>Experimental Cell Research</i> , 2006 , 312, 3872-9	4.2	28
48	The fate of human Treg cells. <i>Immunity</i> , 2009 , 30, 763-5	32.3	27
47	Relevance of hyperglycemia on the timing of functional loss of allogeneic islet transplants: implication for mouse model. <i>Transplantation</i> , 2007 , 83, 167-73	1.8	25
46	The puzzling world of murine T regulatory cells. <i>Microbes and Infection</i> , 2002 , 4, 559-66	9.3	25
45	Co-graft of allogeneic immune regulatory neural stem cells (NPC) and pancreatic islets mediates tolerance, while inducing NPC-derived tumors in mice. <i>PLoS ONE</i> , 2010 , 5, e10357	3.7	24
44	The role of cytokines (and not only) in inducing and expanding T regulatory type 1 cells. <i>Transplantation</i> , 2004 , 77, S16-8	1.8	24
43	Beyond the usual suspects: a cholinergic route for panic attacks. <i>Molecular Psychiatry</i> , 2002 , 7, 239-46	15.1	24
42	Modulation of early inflammatory reactions to promote engraftment and function of transplanted pancreatic islets in autoimmune diabetes. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 654, 725-47	3.6	22
41	Potential T regulatory cell therapy in transplantation: how far have we come and how far can we go?. <i>Transplant International</i> , 2010 , 23, 761-70	3	21
40	Generation of Donor-specific T Regulatory Type 1 Cells From Patients on Dialysis for Cell Therapy After Kidney Transplantation. <i>Transplantation</i> , 2015 , 99, 1582-9	1.8	20
39	The protein tyrosine phosphatase PTPN22 controls forkhead box protein 3 T regulatory cell induction but is dispensable for T helper type 1 cell polarization. <i>Clinical and Experimental Immunology</i> , 2014 , 178, 178-89	6.2	18
38	Heterogeneous CD3 expression levels in differing T cell subsets correlate with the in vivo anti-CD3-mediated T cell modulation. <i>Journal of Immunology</i> , 2015 , 194, 2117-27	5.3	17
37	Loss of immune tolerance to IL-2 in type 1 diabetes. <i>Nature Communications</i> , 2016 , 7, 13027	17.4	17
36	Regulatory T cells: prospective for clinical application in hematopoietic stem cell transplantation. <i>Current Opinion in Hematology</i> , 2005 , 12, 451-6	3.3	17
35	Combination Therapy Reverses Hyperglycemia in NOD Mice With Established Type 1 Diabetes. <i>Diabetes</i> , 2015 , 64, 3873-84	0.9	16
34	Induction of transplantation tolerance via regulatory T cells. <i>Inflammation and Allergy: Drug Targets</i> , 2006 , 5, 157-65		15
33	Calcineurin inhibitor-free immunosuppressive regimen in type 1 diabetes patients receiving islet transplantation: single-group phase 1/2 trial. <i>Transplantation</i> , 2014 , 98, 1301-9	1.8	14
32	Neutrophils and type 1 diabetes: current knowledge and suggested future directions. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2019 , 26, 201-206	4	14

31	Tr1 cell immunotherapy promotes transplant tolerance via de novo Tr1 cell induction in mice and is safe and effective during acute viral infection. <i>European Journal of Immunology</i> , 2018 , 48, 1389-1399	6.1	11
30	Autoimmune diabetic patients undergoing allogeneic islet transplantation: are we ready for a regulatory T-cell therapy?. <i>Immunology Letters</i> , 2009 , 127, 1-7	4.1	11
29	Reduced PD-1 expression on circulating follicular and conventional FOXP3 Treg cells in children with new onset type 1 diabetes and autoantibody-positive at-risk children. <i>Clinical Immunology</i> , 2020 , 211, 108319	9	11
28	Extrinsic Protein Tyrosine Phosphatase Non-Receptor 22 Signals Contribute to CD8 T Cell Exhaustion and Promote Persistence of Chronic Lymphocytic Choriomeningitis Virus Infection. <i>Frontiers in Immunology</i> , 2017 , 8, 811	8.4	10
27	Concise Review: Cell-Based Therapies and Other Non-Traditional Approaches for Type 1 Diabetes. <i>Stem Cells</i> , 2016 , 34, 809-19	5.8	10
26	Towards an Earlier and Timely Diagnosis of Type 1 Diabetes: Is it Time to Change Criteria to Define Disease Onset?. <i>Current Diabetes Reports</i> , 2015 , 15, 115	5.6	9
25	Protein tyrosine phosphatase PTPN22 has dual roles in promoting pathogen versus homeostatic-driven CD8 T-cell responses. <i>Immunology and Cell Biology</i> , 2017 , 95, 121-128	5	8
24	Experiments by nature: lessons on type 1 diabetes. <i>Tissue Antigens</i> , 2014 , 83, 1-9		8
23	Standardization in flow cytometry: correct sample handling as a priority. <i>Nature Reviews Immunology</i> , 2012 , 12, 864	36.5	8
22	Combination of an Antigen-Specific Therapy and an Immunomodulatory Treatment to Simultaneous Block Recurrent Autoimmunity and Alloreactivity in Non-Obese Diabetic Mice. <i>PLoS ONE</i> , 2015 , 10, e0127631	3.7	8
21	Lack of the protein tyrosine phosphatase PTPN22 strengthens transplant tolerance to pancreatic islets in mice. <i>Diabetologia</i> , 2015 , 58, 1319-28	10.3	7
20	PTPN22 controls virally-induced autoimmune diabetes by modulating cytotoxic T lymphocyte responses in an epitope-specific manner. <i>Clinical Immunology</i> , 2015 , 156, 98-108	9	7
19	Re-establishing immune tolerance in type 1 diabetes via regulatory T cells. <i>Novartis Foundation Symposium</i> , 2008 , 292, 174-83; discussion 183-6, 202-3		7
18	Key role of macrophages in tolerance induction via T regulatory type 1 (Tr1) cells. <i>Clinical and Experimental Immunology</i> , 2020 , 201, 222-230	6.2	5
17	Overlap of direct and indirect alloreactive T-cell repertoires when MHC polymorphism is limited to the peptide binding groove. <i>Human Immunology</i> , 2002 , 63, 91-100	2.3	5
16	CD4+CD25+CD127hi cell frequency predicts disease progression in type 1 diabetes. <i>JCI Insight</i> , 2021 , 6,	9.9	5
15	Immune Depletion in Combination with Allogeneic Islets Permanently Restores Tolerance to Self-Antigens in Diabetic NOD Mice. <i>PLoS ONE</i> , 2015 , 10, e0142318	3.7	3
14	Reduced Follicular Regulatory T Cells in Spleen and Pancreatic Lymph Nodes of Patients With Type 1 Diabetes. <i>Diabetes</i> , 2021 , 70, 2892-2902	0.9	3

13	Impaired exocrine pancreatic function in different stages of type 1 diabetes. <i>BMJ Open Diabetes Research and Care</i> , 2021 , 9,	4.5	3
12	Regulatory T cells from patients with end-stage organ disease can be isolated, expanded and cryopreserved according good manufacturing practice improving their function. <i>Journal of Translational Medicine</i> , 2019 , 17, 250	8.5	2
11	Circulating platelet-neutrophil aggregates characterize the development of type 1 diabetes in humans and NOD mice.. <i>JCI Insight</i> , 2022 , 7,	9.9	2
10	Type 1 regulatory T (Tr1) cells: from the bench to the bedside. <i>Journal of Translational Medicine</i> , 2012 , 10,	8.5	1
9	Comment on M. Guillot-Delost et al. (2008;10:834-846): Clinical-grade preparation of human natural regulatory T cells encoding the thymidine kinase suicide gene as a safety gene. <i>Journal of Gene Medicine</i> , 2009 , 11, 180-1	3.5	1
8	In vivo neutralization of inflammatory cytokines might not be necessary for regulatory T-cell immunotherapy. <i>Nature Reviews Immunology</i> , 2008 , 8, 1-1	36.5	1
7	Murine Pancreatic Islets Transplantation under the Kidney Capsule. <i>Bio-protocol</i> , 2018 , 8, e2743	0.9	1
6	Beyond the usual suspects: a cholinergic route for panic attacks		1
5	Altered Frequency and Phenotype of HLA-G-Expressing DC-10 in Type 1 Diabetes Patients at Onset and in Subjects at Risk to Develop the Disease. <i>Frontiers in Immunology</i> , 2021 , 12, 750162	8.4	1
4	Exocrine pancreas function is impaired in adult relatives of patients with type 1 diabetes. <i>Acta Diabetologica</i> , 2021 , 1	3.9	0
3	Identifying the 'Achilles heel' of type 1 diabetes. <i>Clinical and Experimental Immunology</i> , 2021 , 204, 167-178		0
2	Human Type 1 T Regulatory Cells 2008 , 455-471		
1	The Unusual Suspects In Allograft Rejection: Will T Regulatory Cell Therapy Arrest Them?. <i>Current Transplantation Reports</i> , 2016 , 3, 221-226	1.5	