Bruno Kyewski

List of Publications by Year
in descending order

78 papers	9,366 citations	57631 44 h-index	74018 75 g-index
92 all docs	92 docs citations	92 times ranked	7811 citing authors

#	Article	IF	Citations
1	Positive and negative selection of the T cell repertoire: what thymocytes see (and don't see). Nature Reviews Immunology, 2014, 14, 377-391.	10.6	1,043
2	Promiscuous gene expression in medullary thymic epithelial cells mirrors the peripheral self. Nature Immunology, 2001, 2, 1032-1039.	7.0	933
3	A CENTRAL ROLE FOR CENTRAL TOLERANCE. Annual Review of Immunology, 2006, 24, 571-606.	9.5	631
4	Promiscuous gene expression in thymic epithelial cells is regulated at multiple levels. Journal of Experimental Medicine, 2005, 202, 33-45.	4.2	498
5	Antigen presentation in the thymus for positive selection and central tolerance induction. Nature Reviews Immunology, 2009, 9, 833-844.	10.6	452
6	Shaping of the autoreactive T-cell repertoire by a splice variant of self protein expressed in thymic epithelial cells. Nature Medicine, 2000, 6, 56-61.	15.2	355
7	Self-representation in the thymus: an extended view. Nature Reviews Immunology, 2004, 4, 688-698.	10.6	319
8	Medullary Epithelial Cells of the Human Thymus Express a Highly Diverse Selection of Tissue-specific Genes Colocalized in Chromosomal Clusters. Journal of Experimental Medicine, 2004, 199, 155-166.	4.2	317
9	Bone marrow as a priming site for T-cell responses to blood-borne antigen. Nature Medicine, 2003, 9, 1151-1157.	15.2	301
10	Thymic tuft cells promote an IL-4-enriched medulla and shape thymocyte development. Nature, 2018, 559, 627-631.	13.7	221
11	The thymic medulla: a unique microenvironment for intercellular self-antigen transfer. Journal of Experimental Medicine, 2009, 206, 1505-1513.	4.2	218
12	Thymic B Cells Are Licensed to Present Self Antigens for Central T Cell Tolerance Induction. Immunity, 2015, 42, 1048-1061.	6.6	201
13	Promiscuous gene expression patterns in single medullary thymic epithelial cells argue for a stochastic mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 657-662.	3.3	184
14	Promiscuous gene expression and central T-cell tolerance: more than meets the eye. Trends in Immunology, 2002, 23, 364-371.	2.9	180
15	Conventional and Neo-antigenic Peptides Presented by Î² Cells Are Targeted by Circulating NaÃ¯ve CD8+ T Cells in Type 1 Diabetic and Healthy Donors. Cell Metabolism, 2018, 28, 946-960.e6.	7.2	177
16	Islet-reactive CD8 ⁺ T cell frequencies in the pancreas, but not in blood, distinguish type 1 diabetic patients from healthy donors. Science Immunology, 2018, 3, .	5.6	171
17	Impaired thymic tolerance to Î±-myosin directs autoimmunity to the heart in mice and humans. Journal of Clinical Investigation, 2011, 121, 1561-1573.	3.9	168
18	An IRF8-binding promoter variant and AIRE control CHRNA1 promiscuous expression in thymus. Nature, 2007, 448, 934-937.	13.7	167

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19	CD4 T Cell Tolerance to Human C-reactive Protein, an Inducible Serum Protein, Is Mediated by Medullary Thymic Epithelium. Journal of Experimental Medicine, 1998, 188, 5-16.	4.2	151
20	Single-cell transcriptome analysis reveals coordinated ectopic gene-expression patterns in medullary thymic epithelial cells. Nature Immunology, 2015, 16, 933-941.	7.0	148
21	A filarial cysteine protease inhibitor down-regulates T cell proliferation and enhances interleukin-10 production. European Journal of Immunology, 1997, 27, 2253-2260.	1.6	137
22	Promiscuous gene expression and the developmental dynamics of medullary thymic epithelial cells. European Journal of Immunology, 2007, 37, 3363-3372.	1.6	135
23	Self-antigen presentation by thymic stromal cells: a subtle division of labor. Current Opinion in Immunology, 2000, 12, 179-186.	2.4	120
24	Selection of a Broad Repertoire of CD4+ T Cells in H-2Ma0/0 Mice. Immunity, 1997, 7, 187-195.	6.6	115
25	Tolerance induction by clonal deletion of CD4+8+ thymocytes in vitro does not require dedicated antigen-presenting cells. European Journal of Immunology, 1993, 23, 669-674.	1.6	101
26	Promiscuous expression of tissue antigens in the thymus: a key to T-cell tolerance and autoimmunity?. Journal of Molecular Medicine, 2000, 78, 483-494.	1.7	92
27	Foxp3+ CD25+ regulatory T cells specific for a neo-self-antigen develop at the double-positive thymic stage. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8453-8458.	3.3	92
28	How thymic antigen presenting cells sample the body's self-antigens. Current Opinion in Immunology, 2010, 22, 592-600.	2.4	92
29	Jagged2 acts as a Delta-like Notch ligand during early hematopoietic cell fate decisions. Blood, 2011, 117, 4449-4459.	0.6	89
30	Sampling of complementing self-antigen pools by thymic stromal cells maximizes the scope of central T cell tolerance. European Journal of Immunology, 2001, 31, 2476-2486.	1.6	87
31	Adult Thymus Contains FoxN1â^{ˆ'} Epithelial Stem Cells that Are Bipotent for Medullary and Cortical Thymic Epithelial Lineages. Immunity, 2014, 41, 257-269.	6.6	83
32	Association of an SNP with intrathymic transcription of TSHR and Graves' disease: a role for defective thymic tolerance. Human Molecular Genetics, 2011, 20, 3415-3423.	1.4	74
33	Expression of Tumor-Associated Differentiation Antigens, MUC1 Glycoforms and CEA, in Human Thymic Epithelial Cells: Implications for Self-Tolerance and Tumor Therapy. Cancer Research, 2007, 67, 3919-3926.	0.4	71
34	Overlapping gene coexpression patterns in human medullary thymic epithelial cells generate self-antigen diversity. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3497-505.	3.3	70
35	Re-examining the Nature and Function of Self-Reactive T cells. Trends in Immunology, 2016, 37, 114-125.	2.9	68
36	T cells specific for post-translational modifications escape intrathymic tolerance induction. Nature Communications, 2018, 9, 353.	5.8	66

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37	Highly variable expression of tissue-restricted self-antigens in human thymus: Implications for self-tolerance and autoimmunity. European Journal of Immunology, 2007, 37, 838-848.	1.6	64
38	Dynamic Changes During the Immune Response in T Cellâ€"Antigen-presenting Cell Clusters Isolated from Lymph Nodes. Journal of Experimental Medicine, 2003, 197, 269-280.	4.2	56
39	Expression of a Natural Tumor Antigen by Thymic Epithelial Cells Impairs the Tumor-Protective CD4+ T-Cell Repertoire. Cancer Research, 2005, 65, 6443-6449.	0.4	55
40	CD4+ helper T cells are required for resistance to a highly metastatic murine tumor. European Journal of Immunology, 1987, 17, 1863-1866.	1.6	54
41	Regulating self-tolerance by deregulating gene expression. Current Opinion in Immunology, 2004, 16, 741-745.	2.4	50
42	Epigenetic regulation of promiscuous gene expression in thymic medullary epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19426-19431.	3.3	49
43	An evolutionarily conserved mutual interdependence between <scp>A</scp>ire and micro<scp>RNA</scp>s in promiscuous gene expression. European Journal of Immunology, 2013, 43, 1769-1778.	1.6	48
44	Misinitiation of intrathymic <i>MARTâ€1</i> transcription and biased TCR usage explain the high frequency of MARTâ€1â€specific T cells. European Journal of Immunology, 2014, 44, 2811-2821.	1.6	44
45	The Thymus Medulla Slowly Yields Its Secrets. Annals of the New York Academy of Sciences, 2008, 1143, 105-122.	1.8	43
46	An Organotypic Coculture Model Supporting Proliferation and Differentiation of Medullary Thymic Epithelial Cells and Promiscuous Gene Expression. Journal of Immunology, 2013, 190, 1085-1093.	0.4	42
47	Composition of the lymphoid cell populations from omental milky spots during the immune response in C57BL/Ka mice. European Journal of Immunology, 1986, 16, 1029-1032.	1.6	41
48	Aire, Master of Many Trades. Cell, 2010, 140, 24-26.	13.5	38
49	Presentation and intercellular transfer of self antigen within the thymic microenvironment: expression of the EÎ± peptide-l-Ab complex by isolated thymic stromal cells. International Immunology, 1994, 6, 1949-1958.	1.8	36
50	Revisiting the Road Map of Medullary Thymic Epithelial Cell Differentiation. Journal of Immunology, 2017, 199, 3488-3503.	0.4	32
51	Expression profiling of autoimmune regulator AIRE mRNA in a comprehensive set of human normal and neoplastic tissues. Immunology Letters, 2006, 106, 172-179.	1.1	31
52	DNA methylation signatures of the AIRE promoter in thymic epithelial cells, thymomas and normal tissues. Molecular Immunology, 2011, 49, 518-526.	1.0	30
53	Identical forms of the CD2 antigen expressed by mouse T and B lymphocytes. European Journal of Immunology, 1989, 19, 1509-1512.	1.6	29
54	Homeodomain-Interacting Protein Kinase 2, a Novel Autoimmune Regulator Interaction Partner, Modulates Promiscuous Gene Expression in Medullary Thymic Epithelial Cells. Journal of Immunology, 2015, 194, 921-928.	0.4	28

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55	Central T cell tolerance: Identification of tissue-restricted autoantigens in the thymus HLA-DR peptidome. Journal of Autoimmunity, 2015, 60, 12-19.	3.0	27
56	Materno-Fetal Transfer of Preproinsulin Through the Neonatal Fc Receptor Prevents Autoimmune Diabetes. Diabetes, 2015, 64, 3532-3542.	0.3	24
57	Obligation for cell line authentication: Appeal for concerted action. International Journal of Cancer, 2010, 126, 1-1.	2.3	23
58	Clonal deletion of major histocompatibility complex class I-restricted CD4+CD8+ thymocytesin vitro is independent of the CD95 (APO-1/Fas) ligand. European Journal of Immunology, 1995, 25, 2996-2999.	1.6	21
59	CREB function is required for normal thymic cellularity and post-irradiation recovery. European Journal of Immunology, 2004, 34, 1961-1971.	1.6	21
60	Thymic Epithelial Cells Are a Nonredundant Source of Wnt Ligands for Thymus Development. Journal of Immunology, 2015, 195, 5261-5271.	0.4	19
61	Evolutionary conserved gene co-expression drives generation ofÂself-antigen diversity in medullary thymic epithelial cells. Journal of Autoimmunity, 2016, 67, 65-75.	3.0	19
62	Tolerance and immunity to the inducible self antigen C-reactive protein in transgenic mice. European Journal of Immunology, 1995, 25, 3489-3495.	1.6	18
63	Myelin oligodendrocyte glycoprotein induces incomplete tolerance of CD4⁺ TÂcells specific for both a myelin and a neuronal selfâ€antigen in mice. European Journal of Immunology, 2016, 46, 2247-2259.	1.6	13
64	Dissecting and modeling the emergent murine TEC compartment during ontogeny. European Journal of Immunology, 2017, 47, 1153-1159.	1.6	13
65	A Thymic Epithelial Stem Cell Pool Persists throughout Ontogeny and Is Modulated by TGF-Î². Cell Reports, 2016, 17, 448-457.	2.9	12
66	<i>How Promiscuity Promotes Tolerance: The Case of Myasthenia Gravis</i>. Annals of the New York Academy of Sciences, 2008, 1132, 157-162.	1.8	11
67	Love Is in the Aire: mTECs Share Their Assets. Immunity, 2014, 41, 343-345.	6.6	11
68	Epitope-Specific Tolerance Modes Differentially Specify Susceptibility to Proteolipid Protein-Induced Experimental Autoimmune Encephalomyelitis. Frontiers in Immunology, 2017, 8, 1511.	2.2	10
69	3D Organotypic Co-culture Model Supporting Medullary Thymic Epithelial Cell Proliferation, Differentiation and Promiscuous Gene Expression. Journal of Visualized Experiments, 2015, , e52614.	0.2	6
70	A Breath of Aire for the Periphery. Science, 2008, 321, 776-777.	6.0	5
71	Editorial. International Journal of Cancer, 2010, 127, n/a-n/a.	2.3	4
72	Response to 'Lymphoid organs contain diverse cells expressing self-molecules'. Nature Immunology, 2002, 3, 336-336.	7.0	3

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73	Conflicts of interest: The responsibility of the authors and editors of theInternational Journal of Cancer. International Journal of Cancer, 2006, 118, 2919-2919.	2.3	3
74	Editorial Overview. Current Opinion in Immunology, 2012, 24, 67-70.	2.4	3
75	Pillars Article: Promiscuous Gene Expression in Medullary Thymic Epithelial Cells Mirrors the Peripheral Self. Nat. Immunol. 2001. 2: 1032-1039. Journal of Immunology, 2016, 196, 2915-22.	0.4	3
76	Autoimmune interaction measured in a postlabelling microcytostasis assay. Journal of Immunological Methods, 1979, 25, 1-11.	0.6	0
77	Genome-wide gene expression profiling of homeodomain-interacting protein kinase 2 deficient medullary thymic epithelial cells. Genomics Data, 2015, 6, 48-50.	1.3	0
78	An efficient protocol for in vivo labeling of proliferating epithelial cells. Journal of Immunological Methods, 2018, 457, 82-86.	0.6	0