Olaf Rotzschke

List of Publications by Year
in descending order

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88	9,722	81900 39	49909 87
papers	citations	h-index	g-index

92	92	92	12250
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules. Nature, 1991, 351, 290-296.	27.8	2,407
2	Expression of ectonucleotidase CD39 by Foxp3+ Treg cells: hydrolysis of extracellular ATP and immune suppression. Blood, 2007, 110, 1225-1232.	1.4	1,074
3	Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells. Nature, 1990, 348, 252-254.	27.8	795
4	Large-scale cis- and trans-eQTL analyses identify thousands of genetic loci and polygenic scores that regulate blood gene expression. Nature Genetics, 2021, 53, 1300-1310.	21.4	590
5	Cellular peptide composition governed by major histocompatibility complex class I molecules. Nature, 1990, 348, 248-251.	27.8	439
6	Exact prediction of a natural T cell epitope. European Journal of Immunology, 1991, 21, 2891-2894.	2.9	421
7	CCR6 expression defines regulatory effector/memory-like cells within the CD25+CD4+ T-cell subset. Blood, 2005, 105, 2877-2886.	1.4	275
8	Warburg metabolism in tumor-conditioned macrophages promotes metastasis in human pancreatic ductal adenocarcinoma. OncoImmunology, 2016, 5, e1191731.	4.6	178
9	Early neutralizing IgG response to Chikungunya virus in infected patients targets a dominant linear epitope on the E2 glycoprotein. EMBO Molecular Medicine, 2012, 4, 330-343.	6.9	177
10	Establishing Criteria for Human Mesenchymal Stem Cell Potency. Stem Cells, 2015, 33, 1878-1891.	3.2	163
11	MHC molecules as peptide receptors. Current Opinion in Immunology, 1993, 5, 35-44.	5.5	156
12	Viral Dynamics and Immune Correlates of Coronavirus Disease 2019 (COVID-19) Severity. Clinical Infectious Diseases, 2021, 73, e2932-e2942.	5.8	143
13	Whole blood immunophenotyping uncovers immature neutrophil-to-VD2 T-cell ratio as an early marker for severe COVID-19. Nature Communications, 2020, 11, 5243.	12.8	138
14	CD49d provides access to â€œuntouchedâ€•human Foxp3+ Treg free of contaminating effector cells. Blood, 2009, 113, 827-836.	1.4	132
15	Cell Specific eQTL Analysis without Sorting Cells. PLoS Genetics, 2015, 11, e1005223.	3.5	115
16	Consensus motifs and peptide ligands of MHC class I molecules. Seminars in Immunology, 1993, 5, 81-94.	5.6	111
17	Peptide motifs of HLA-B51, -B52 and -B78 molecules, and implications for Behfet's disease. International Immunology, 1995, 7, 223-228.	4.0	108
18	Discovery of six new susceptibility loci and analysis of pleiotropic effects in leprosy. Nature Genetics, 2015, 47, 267-271.	21.4	103

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19	Qa-2 molecules are peptide receptors of higher stringency than ordinary class I molecules. Nature, 1993, 361, 642-644.	27.8	98
20	The role of IgA in COVID-19. Brain, Behavior, and Immunity, 2020, 87, 182-183.	4.1	92
21	Origin, structure and motifs of naturally processed MHC class II ligands. Current Opinion in Immunology, 1994, 6, 45-51.	5.5	87
22	Peptide motifs of HLA-A1,-A11,-A31, and-A33 molecules. Immunogenetics, 1994, 40, 238-241.	2.4	86
23	Influenza A Virus Infection Results in a Robust, Antigen-Responsive, and Widely Disseminated Foxp3 ⁺ Regulatory T Cell Response. Journal of Virology, 2012, 86, 2817-2825.	3.4	84
24	Peptide motifs of closely related HLA class I molecules encompass substantial differences. European Journal of Immunology, 1992, 22, 2453-2456.	2.9	79
25	Peptide motifs of HLA-A3, -A24, and -B7 molecules as determined by pool sequencing. Immunogenetics, 1994, 40, 306-308.	2.4	75
26	Natural peptide ligand motifs of two HLA molecules associated with myasthenia gravis. International Immunology, 1993, 5, 1229-1237.	4.0	74
27	Cathepsin G, and Not the Asparagine-Specific Endoprotease, Controls the Processing of Myelin Basic Protein in Lysosomes from Human B Lymphocytes. Journal of Immunology, 2004, 172, 5495-5503.	0.8	73
28	Peptide motifs of HLA-B58, B60, B61, and B62 molecules. Immunogenetics, 1995, 41, 165-168.	2.4	67
29	Bidirectional binding of invariant chain peptides to an MHC class II molecule. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22219-22224.	7.1	67
30	Uneven tissue distribution of minor histocompatibility proteins versus peptides is caused by MHC expression. Cell, 1991, 65, 633-640.	28.9	66
31	A pH-sensitive histidine residue as control element for ligand release from HLA-DR molecules. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16946-16950.	7.1	60
32	Expanding Regulatory T Cells Alleviates Chikungunya Virus-Induced Pathology in Mice. Journal of Virology, 2015, 89, 7893-7904.	3.4	49
33	Isolation of naturally processed peptides recognized by cytolytic T lymphocytes (CTL) on human melanoma cells in association with HLA-A2.1. International Journal of Cancer, 1994, 57, 413-418.	5.1	45
34	Ligand Exchange of Major Histocompatibility Complex Class II Proteins Is Triggered by H-bond Donor Groups of Small Molecules. Journal of Biological Chemistry, 2002, 277, 2709-2715.	3.4	45
35	Absence of Leucine Zipper in the Natural FOXP3Î”2Î”7 Isoform Does Not Affect Dimerization but Abrogates Suppressive Capacity. PLoS ONE, 2009, 4, e6104.	2.5	43
36	Î³/Î´ T cell subsets in human aging using the classical Î±/Î² T cell model. Journal of Leukocyte Biology, 2014, 96, 647-655.	3.3	43

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37	Peptide motifs of HLA-B38 and B39 molecules. Immunogenetics, 1995, 41, 162-164.	2.4	42
38	Whole-genome sequencing identifies responders to Pembrolizumab in relapse/refractory natural-killer/T cell lymphoma. Leukemia, 2020, 34, 3413-3419.	7.2	42
39	Assessment of T-cell Reactivity to the SARS-CoV-2 Omicron Variant by Immunized Individuals. JAMA Network Open, 2022, 5, e2210871.	5.9	42
40	Induction and Suppression of an Autoimmune Disease by Oligomerized T Cell Epitopes. Journal of Experimental Medicine, 2000, 191, 717-730.	8.5	41
41	â€œChemical Analoguesâ€•of HLA-DM Can Induce a Peptide-receptive State in HLA-DR Molecules. Journal of Biological Chemistry, 2004, 279, 50684-50690.	3.4	39
42	Small Organic Compounds Enhance Antigen Loading of Class II Major Histocompatibility Complex Proteins by Targeting the Polymorphic P1 Pocket. Journal of Biological Chemistry, 2006, 281, 38535-38542.	3.4	38
43	Asymptomatic COVIDâ€19: disease tolerance with efficient antiâ€viral immunity against SARSâ€CoVâ€2. EMBO Molecular Medicine, 2021, 13, e14045.	6.9	36
44	Anchor Side Chains of Short Peptide Fragments Trigger Ligand-Exchange of Class II MHC Molecules. PLoS ONE, 2008, 3, e1814.	2.5	34
45	Functional variants of 17q12-21 are associated with allergic asthma but not allergic rhinitis. Journal of Allergy and Clinical Immunology, 2016, 137, 758-766.e3.	2.9	34
46	Characterization of Structural Features Controlling the Receptiveness of Empty Class II MHC Molecules. PLoS ONE, 2011, 6, e18662.	2.5	31
47	A functional SNP associated with atopic dermatitis controls cell type-specific methylation of the VSTM1 gene locus. Genome Medicine, 2017, 9, 18.	8.2	30
48	Both Human and Mouse Cells Expressing H-2Kb and Ovalbumin Process the Same Peptide, SIINFEKL. Cellular Immunology, 1993, 150, 447-452.	3.0	26
49	Genetic analysis of an allergic rhinitis cohort reveals an intercellular epistasis between FAM134B and CD39. BMC Medical Genetics, 2014, 15, 73.	2.1	26
50	Systematic characterization of basophil anergy. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 373-384.	5.7	26
51	Atopic dermatitis microbiomes stratify into ecologic dermotypes enabling microbial virulence and disease severity. Journal of Allergy and Clinical Immunology, 2021, 147, 1329-1340.	2.9	26
52	Genome-wide analysis of the genetic regulation of gene expression in human neutrophils. Nature Communications, 2015, 6, 7971.	12.8	23
53	Gene transfer experiments imply instructive role of major histocompatibility complex class I molecules in cellular peptide processing. European Journal of Immunology, 1992, 22, 655-659.	2.9	22
54	Specificity of antigen processing for MHC class I restricted presentation is conserved between mouse and man. European Journal of Immunology, 1992, 22, 1323-1326.	2.9	21

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55	The final cut: how ERAP1 trims MHC ligands to size. Nature Immunology, 2002, 3, 1121-1122.	14.5	21
56	A comprehensive association analysis confirmsZMIZ1to be a susceptibility gene for vitiligo in Chinese population. Journal of Medical Genetics, 2014, 51, 345-353.	3.2	21
57	The Diversity of Antigen-Specific TCR Repertoires Reflects the Relative Complexity of Epitopes Recognized. Human Immunology, 1997, 54, 117-128.	2.4	19
58	Immune modulation of inflammatory conditions: regulatory T cells for treatment of GvHD. Immunologic Research, 2012, 53, 200-212.	2.9	19
59	Neuropeptide Y associated with asthma in young adults. Neuropeptides, 2016, 59, 117-121.	2.2	19
60	Antigen-specific elimination of T cells induced by oligomerized hemagglutinin (HA) 306-318. European Journal of Immunology, 2000, 30, 3012-3020.	2.9	17
61	VÎ´2+ and Î±/Î² T cells show divergent trajectories during human aging. Oncotarget, 2016, 7, 44906-44918.	1.8	17
62	A Co-culture Model of PBMC and Stem Cell Derived Human Nasal Epithelium Reveals Rapid Activation of NK and Innate T Cells Upon Influenza A Virus Infection of the Nasal Epithelium. Frontiers in Immunology, 2018, 9, 2514.	4.8	16
63	Multimerized T cell epitopes protect from experimental autoimmune diabetes by inducing dominant tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9393-9398.	7.1	14
64	Refining Attention-Deficit/Hyperactivity Disorder and Autism Spectrum Disorder Genetic Loci by Integrating Summary Data From Genome-wide Association, Gene Expression, and DNA Methylation Studies. Biological Psychiatry, 2020, 88, 470-479.	1.3	14
65	A self peptide naturally presented by both H-2Kb and H-2Kbm1 molecules demonstrates MHC restriction of self tolerance at the molecular level. International Immunology, 1992, 4, 321-325.	4.0	13
66	A prominent natural H-2 Kd ligand is derived from protein tyrosine kinase JAK1. Immunology Letters, 1993, 35, 235-237.	2.5	13
67	Small-molecular compounds enhance the loading of APC with encephalitogenic MBP protein. Journal of Autoimmunity, 2003, 20, 63-69.	6.5	13
68	Gutâ€“Brain Axis: Potential Factors Involved in the Pathogenesis of Parkinson's Disease. Frontiers in Neurology, 2020, 11, 849.	2.4	13
69	Active Suppression Induced by Repetitive Self-Epitopes Protects against EAE Development. PLoS ONE, 2013, 8, e64888.	2.5	13
70	Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules. 1991. Journal of Immunology, 2006, 177, 2741-7.	0.8	12
71	Evaluation of the applicability of the Immunoâ€solidâ€phase allergen chip (ISAC) assay in atopic patients in Singapore. Clinical and Translational Allergy, 2015, 5, 9.	3.2	11
72	In vivoâ€“activated CD103+ Foxp3+ Tregs: of men and mice. Blood, 2009, 113, 2119-2120.	1.4	10

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73	Molecular Modeling of the Class I Human Histocompatibility Molecule HLA-A2 Presenting an Allele-Specific Nonapeptide from Influenza Matrix Protein. Angewandte Chemie International Edition in English, 1992, 31, 886-890.	4.4	9
74	Production of neuroprotective NGF in astrocyteâ€“T helper cell cocultures is upregulated following antigen recognition. Journal of Neuroimmunology, 2004, 149, 59-65.	2.3	9
75	Design of protease-resistant myelin basic protein-derived peptides by cleavage site directed amino acid substitutions. Biochemical Pharmacology, 2007, 74, 1514-1523.	4.4	9
76	Association of Interleukin-13 SNP rs20541 (Arg>Gln) to allergic rhinitis in an Asian population of ethnic Chinese in Singapore. Gene, 2013, 529, 357-358.	2.2	9
77	Immune Modulation and Prevention of Autoimmune Disease by Repeated Sequences from Parasites Linked to Self Antigens. Journal of NeuroImmune Pharmacology, 2016, 11, 749-762.	4.1	9
78	Histone acetylome-wide associations in immune cells from individuals with active Mycobacterium tuberculosis infection. Nature Microbiology, 2022, 7, 312-326.	13.3	9
79	Resistin expression in human monocytes is controlled by two linked promoter SNPs mediating NFKB p50/p50 binding and C-methylation. Scientific Reports, 2019, 9, 15245.	3.3	8
80	Data-Driven Analysis of COVID-19 Reveals Persistent Immune Abnormalities in Convalescent Severe Individuals. Frontiers in Immunology, 2021, 12, 710217.	4.8	8
81	FUT6 deficiency compromises basophil function by selectively abrogating their sialyl-Lewis x expression. Communications Biology, 2021, 4, 832.	4.4	7
82	Hydrolysis of extracellular ATP by CD39+ Treg cells: context matters!. Blood, 2008, 111, 965-966.	1.4	5
83	Genetic variants of inducible costimulator are associated with allergic asthma susceptibility. Journal of Allergy and Clinical Immunology, 2015, 135, 556-558.e13.	2.9	4
84	Inverse association of FCER1A allergy variant in monocytes and plasmacytoid dendritic cells. Journal of Allergy and Clinical Immunology, 2021, 147, 1510-1513.e8.	2.9	4
85	Parkinsonâ€™s Disease-Specific Autoantibodies against the Neuroprotective Co-Chaperone STIP1. Cells, 2022, 11, 1649.	4.1	4
86	ArchiLD: Hierarchical Visualization of Linkage Disequilibrium in Human Populations. PLoS ONE, 2014, 9, e86761.	2.5	2
87	Evaluation of Serum Levels of Osteopontin and IgG Anti-Osteopontin Autoantibodies As Potential Biomarkers of Immune Activation in Patients with Allergic Diseases. Journal of Allergy and Clinical Immunology, 2016, 137, AB394.	2.9	0
88	Differential Transcriptomic Response To Aspirin Challenge In Blood Eosinophils From Patients With Aspirin Exacerbated Respiratory Disease (AERD). Journal of Allergy and Clinical Immunology, 2020, 145, AB120.	2.9	0