

Thomas Korn

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84 papers	21,753 citations	44 h-index	90 g-index
90 ext. papers	24,192 ext. citations	14 avg, IF	6.64 L-index

#	Paper	IF	Citations
84	Reciprocal developmental pathways for the generation of pathogenic effector TH17 and regulatory T cells. <i>Nature</i> , 2006 , 441, 235-8	50.4	5545
83	IL-17 and Th17 Cells. <i>Annual Review of Immunology</i> , 2009 , 27, 485-517	34.7	3635
82	IL-21 initiates an alternative pathway to induce proinflammatory T(H)17 cells. <i>Nature</i> , 2007 , 448, 484-487	50.4	1484
81	Control of T(reg) and T(H)17 cell differentiation by the aryl hydrocarbon receptor. <i>Nature</i> , 2008 , 453, 65-71	50.4	1281
80	Interleukin-17 and type 17 helper T cells. <i>New England Journal of Medicine</i> , 2009 , 361, 888-98	59.2	1095
79	Induction and effector functions of T(H)17 cells. <i>Nature</i> , 2008 , 453, 1051-7	50.4	960
78	Analysis of immune-related loci identifies 48 new susceptibility variants for multiple sclerosis. <i>Nature Genetics</i> , 2013 , 45, 1353-60	36.3	934
77	Myelin-specific regulatory T cells accumulate in the CNS but fail to control autoimmune inflammation. <i>Nature Medicine</i> , 2007 , 13, 423-31	50.5	654
76	Th17: the third member of the effector T cell trilogy. <i>Current Opinion in Immunology</i> , 2007 , 19, 652-7	7.8	490
75	IL-6 controls Th17 immunity in vivo by inhibiting the conversion of conventional T cells into Foxp3+ regulatory T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18460-5	11.5	414
74	Proinflammatory T helper type 17 cells are effective B-cell helpers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14292-7	11.5	374
73	Th17 cells: effector T cells with inflammatory properties. <i>Seminars in Immunology</i> , 2007 , 19, 362-71	10.7	351
72	Role of Th1 and Th17 cells in organ-specific autoimmunity. <i>Journal of Autoimmunity</i> , 2008 , 31, 252-6	15.5	306
71	Cutting edge: IL-23 receptor gfp reporter mice reveal distinct populations of IL-17-producing cells. <i>Journal of Immunology</i> , 2009 , 182, 5904-8	5.3	293
70	Neutralization of the IL-17 axis diminishes neutrophil invasion and protects from ischemic stroke. <i>Blood</i> , 2012 , 120, 3793-802	2.2	277
69	Potassium channel KIR4.1 as an immune target in multiple sclerosis. <i>New England Journal of Medicine</i> , 2012 , 367, 115-23	59.2	266
68	T _H 17 cells enhance autoimmunity by restraining regulatory T cell responses via an interleukin-23-dependent mechanism. <i>Immunity</i> , 2010 , 33, 351-63	32.3	209

67	Th17 lymphocytes traffic to the central nervous system independently of β integrin expression during EAE. <i>Journal of Experimental Medicine</i> , 2011 , 208, 2465-76	16.6	197
66	CCL17-expressing dendritic cells drive atherosclerosis by restraining regulatory T cell homeostasis in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2898-910	15.9	183
65	Dendritic cells ameliorate autoimmunity in the CNS by controlling the homeostasis of PD-1 receptor(+) regulatory T cells. <i>Immunity</i> , 2012 , 37, 264-75	32.3	154
64	CXCL13 is the major determinant for B cell recruitment to the CSF during neuroinflammation. <i>Journal of Neuroinflammation</i> , 2012 , 9, 93	10.1	147
63	Microglial expression of the B7 family member B7 homolog 1 confers strong immune inhibition: implications for immune responses and autoimmunity in the CNS. <i>Journal of Neuroscience</i> , 2005 , 25, 2537-46	6.6	134
62	Differential effects of fingolimod (FTY720) on immune cells in the CSF and blood of patients with MS. <i>Neurology</i> , 2011 , 76, 1214-21	6.5	129
61	Brain-resident memory T cells represent an autonomous cytotoxic barrier to viral infection. <i>Journal of Experimental Medicine</i> , 2016 , 213, 1571-87	16.6	125
60	Differential engagement of Tim-1 during activation can positively or negatively costimulate T cell expansion and effector function. <i>Journal of Experimental Medicine</i> , 2007 , 204, 1691-702	16.6	107
59	Pathophysiology of multiple sclerosis. <i>Journal of Neurology</i> , 2008 , 255 Suppl 6, 2-6	5.5	103
58	Immune mechanisms of new therapeutic strategies in MS: teriflunomide. <i>Clinical Immunology</i> , 2012 , 142, 49-56	9	98
57	Cytokines and effector T cell subsets causing autoimmune CNS disease. <i>FEBS Letters</i> , 2011 , 585, 3747-57	3.8	98
56	Autoantigen specific T cells inhibit glutamate uptake in astrocytes by decreasing expression of astrocytic glutamate transporter GLAST: a mechanism mediated by tumor necrosis factor-alpha. <i>FASEB Journal</i> , 2005 , 19, 1878-80	0.9	97
55	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. <i>Nature Neuroscience</i> , 2019 , 22, 1731-1742	25.5	93
54	Antigen targeting to plasmacytoid dendritic cells via Siglec-H inhibits Th cell-dependent autoimmunity. <i>Journal of Immunology</i> , 2011 , 187, 6346-56	5.3	84
53	Modulation of effector cell functions in experimental autoimmune encephalomyelitis by leflunomide--mechanisms independent of pyrimidine depletion. <i>Journal of Leukocyte Biology</i> , 2004 , 76, 950-60	6.5	84
52	Regulatory myeloid cells paralyze T cells through cell-cell transfer of the metabolite methylglyoxal. <i>Nature Immunology</i> , 2020 , 21, 555-566	19.1	79
51	Evidence that nucleocytoplasmic Olig2 translocation mediates brain-injury-induced differentiation of glial precursors to astrocytes. <i>Journal of Neuroscience Research</i> , 2007 , 85, 2126-37	4.4	72
50	IL-17A production by renal Γ cells promotes kidney injury in crescentic GN. <i>Journal of the American Society of Nephrology: JASN</i> , 2012 , 23, 1486-95	12.7	69

49	The dynamics of effector T cells and Foxp3+ regulatory T cells in the promotion and regulation of autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2007 , 191, 51-60	3.5	64
48	Optical coherence tomography indicates disease activity prior to clinical onset of central nervous system demyelination. <i>Multiple Sclerosis Journal</i> , 2016 , 22, 893-900	5	61
47	Th17 cells in central nervous system autoimmunity. <i>Experimental Neurology</i> , 2014 , 262 Pt A, 18-27	5.7	55
46	Enriched CD161 ^{high} CCR6 ⁺ T _H cells in the cerebrospinal fluid of patients with multiple sclerosis. <i>JAMA Neurology</i> , 2013 , 70, 345-51	17.2	54
45	Immunology of neuromyelitis optica: a T cell-B cell collaboration. <i>Annals of the New York Academy of Sciences</i> , 2013 , 1283, 57-66	6.5	54
44	Development and function of interleukin 17-producing T _H cells. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1247, 34-45	6.5	51
43	Active immunization with amyloid-beta 1-42 impairs memory performance through TLR2/4-dependent activation of the innate immune system. <i>Journal of Immunology</i> , 2010 , 185, 6338-47	5.3	51
42	Blimp1 Prevents Methylation of Foxp3 and Loss of Regulatory T Cell Identity at Sites of Inflammation. <i>Cell Reports</i> , 2019 , 26, 1854-1868.e5	10.6	48
41	Myeloid-derived suppressor cells control B cell accumulation in the central nervous system during autoimmunity. <i>Nature Immunology</i> , 2018 , 19, 1341-1351	19.1	45
40	Functional characterization of aquaporin-4 specific T cells: towards a model for neuromyelitis optica. <i>PLoS ONE</i> , 2011 , 6, e16083	3.7	42
39	Expression of miRNAs miR-133b and miR-206 in the IL17a/f locus is co-regulated with IL-17 production in T _H and T _H cells. <i>PLoS ONE</i> , 2011 , 6, e20171	3.7	42
38	Neutralizing IL-17 protects the optic nerve from autoimmune pathology and prevents retinal nerve fiber layer atrophy during experimental autoimmune encephalomyelitis. <i>Journal of Autoimmunity</i> , 2015 , 56, 34-44	15.5	41
37	Unlike T _H cells, T _H cells, LTi cells and NKT cells do not require IRF4 for the production of IL-17A and IL-22. <i>European Journal of Immunology</i> , 2012 , 42, 3189-201	6.1	39
36	Anti-thymocyte globulin (ATG) prevents autoimmune encephalomyelitis by expanding myelin antigen-specific Foxp3+ regulatory T cells. <i>International Immunology</i> , 2007 , 19, 1003-10	4.9	34
35	IL-1 and IL-23 Promote Extrathymic Commitment of CD27CD122 T _H Cells to T _H 17 Cells. <i>Journal of Immunology</i> , 2017 , 199, 2668-2679	5.3	32
34	Brain-resident memory T cells generated early in life predispose to autoimmune disease in mice. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	30
33	18F-FDG PET detects inflammatory infiltrates in spinal cord experimental autoimmune encephalomyelitis lesions. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 1269-76	8.9	30
32	TNF-alpha-dependent loss of IKKbeta-deficient myeloid progenitors triggers a cytokine loop culminating in granulocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 6567-72	11.5	28

31	Dendritic cells in central nervous system autoimmunity. <i>Seminars in Immunopathology</i> , 2017 , 39, 99-111	12	24
30	Immunological basis for the development of tissue inflammation and organ-specific autoimmunity in animal models of multiple sclerosis. <i>Results and Problems in Cell Differentiation</i> , 2010 , 51, 43-74	1.4	24
29	The plasma membrane-associated protein RS1 decreases transcription of the transporter SGLT1 in confluent LLC-PK1 cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45330-40	5.4	24
28	Cloning and characterization of the transport modifier RS1 from rabbit which was previously assumed to be specific for Na ⁺ -D-glucose cotransport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1417, 131-43	3.8	22
27	Repositioning T cell polarization from single cytokines to complex help. <i>Nature Immunology</i> , 2021 , 22, 1210-1217	19.1	22
26	β-integrins control viral meningoencephalitis through differential recruitment of T helper cell subsets. <i>Acta Neuropathologica Communications</i> , 2014 , 2, 27	7.3	19
25	Biphasic form of experimental autoimmune neuritis in dark Agouti rats and its oral therapy by antigen-specific tolerization. <i>Journal of Neuroscience Research</i> , 2004 , 75, 524-35	4.4	19
24	APOSTEL 2.0 Recommendations for Reporting Quantitative Optical Coherence Tomography Studies. <i>Neurology</i> , 2021 , 97, 68-79	6.5	19
23	Salt generates antiinflammatory Th17 cells but amplifies pathogenicity in proinflammatory cytokine microenvironments. <i>Journal of Clinical Investigation</i> , 2020 , 130, 4587-4600	15.9	18
22	Deletional tolerance prevents AQP4-directed autoimmunity in mice. <i>European Journal of Immunology</i> , 2017 , 47, 458-469	6.1	17
21	How T cells take developmental decisions by using the aryl hydrocarbon receptor to sense the environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20597-8	11.5	12
20	Dynamics of antigen-specific regulatory T-cells in the context of autoimmunity. <i>Seminars in Immunology</i> , 2007 , 19, 272-8	10.7	12
19	Impaired volitional closure of the left eyelid after right anterior cerebral artery infarction: apraxia due to interhemispheric disconnection?. <i>Archives of Neurology</i> , 2004 , 61, 273-5		12
18	Vav1-deficient mice are resistant to MOG-induced experimental autoimmune encephalomyelitis due to impaired antigen priming. <i>Journal of Neuroimmunology</i> , 2003 , 139, 17-26	3.5	12
17	Interaction with antigen-specific T cells regulates expression of the lactate transporter MCT1 in primary rat astrocytes: specific link between immunity and homeostasis. <i>Glia</i> , 2005 , 49, 73-83	9	10
16	Lipooligosaccharide of <i>Campylobacter jejuni</i> prevents myelin-specific enteral tolerance to autoimmune neuritis--a potential mechanism in Guillain-Barre syndrome?. <i>Neuroscience Letters</i> , 2005 , 381, 175-8	3.3	9
15	Chronically stimulated microglial cells do no longer alter their immune functions in response to the phagocytosis of apoptotic cells. <i>Journal of Neuroimmunology</i> , 2004 , 155, 64-72	3.5	9
14	RelB Deficiency in Dendritic Cells Protects from Autoimmune Inflammation Due to Spontaneous Accumulation of Tissue T Regulatory Cells. <i>Journal of Immunology</i> , 2019 , 203, 2602-2613	5.3	9

- 13 Inner retinal layer thinning in radiologically isolated syndrome predicts conversion to multiple sclerosis. *European Journal of Neurology*, **2020**, 27, 2217-2224 6 7
- 12 Autoimmune modulation of astrocyte-mediated homeostasis. *NeuroMolecular Medicine*, **2007**, 9, 1-16 4.6 7
- 11 Dendritic Cell Accumulation in the Gut and Central Nervous System Is Differentially Dependent on α Integrins. *Journal of Immunology*, **2019**, 203, 1417-1427 5.3 6
- 10 Aryl Hydrocarbon Receptor Plasma Agonist Activity Correlates With Disease Activity in Progressive MS. *Neurology: Neuroimmunology and NeuroInflammation*, **2021**, 8, 9.1 3
- 9 Cutting Edge: IL-6-Driven Immune Dysregulation Is Strictly Dependent on IL-6R β Chain Expression. *Journal of Immunology*, **2020**, 204, 747-751 5.3 2
- 8 Skin and gut imprinted helper T cell subsets exhibit distinct functional phenotypes in central nervous system autoimmunity. *Nature Immunology*, **2021**, 22, 880-892 19.1 2
- 7 Formation and immunomodulatory function of meningeal B cell aggregates in progressive CNS autoimmunity. *Brain*, **2021**, 144, 1697-1710 11.2 1
- 6 Aquaporin-4 prevents exaggerated astrogliosis and structural damage in retinal inflammation.. *Journal of Molecular Medicine*, **2022**, 1 5.5 1
- 5 Keratinocyte-intrinsic BCL10/MALT1 activity initiates and amplifies psoriasiform skin inflammation. *Science Immunology*, **2021**, 6, eabi4425 28 0
- 4 Reply to Comment on: Repositioning T cell polarization from single cytokines to complex help. *Nature Immunology*, **2022**, 19.1 0
- 3 Stars Are Not in Outer Space: Astrocytes Respond to Environmental Cues. *Cell*, **2019**, 176, 416-418 56.2
- 2 Which type of inflammation can be controlled by Foxp3+ Tregs?. *Acta Neuropathologica*, **2013**, 126, 523-544 4.3
- 1 Multiple sclerosis: is it all black and white in optical coherence tomography?. *Brain*, **2018**, 141, 3088-3091 11.2