

Kai Kisand

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

9,256
citations

87723

38
h-index

46693

89
g-index

110
all docs

110
docs citations

110
times ranked

16193
citing authors

#	ARTICLE	IF	CITATIONS
1	Autoantibodies against type I IFNs in patients with life-threatening COVID-19. <i>Science</i> , 2020, 370, .	6.0	1,983
2	A dynamic COVID-19 immune signature includes associations with poor prognosis. <i>Nature Medicine</i> , 2020, 26, 1623-1635.	15.2	765
3	Chronic mucocutaneous candidiasis in APECED or thymoma patients correlates with autoimmunity to Th17-associated cytokines. <i>Journal of Experimental Medicine</i> , 2010, 207, 299-308.	4.2	593
4	Assessment of interferon-related biomarkers in Aicardi-Goutières syndrome associated with mutations in TREX1, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, and ADAR: a case-control study. <i>Lancet Neurology</i> , The, 2013, 12, 1159-1169.	4.9	473
5	Heterozygous STAT1 gain-of-function mutations underlie an unexpectedly broad clinical phenotype. <i>Blood</i> , 2016, 127, 3154-3164.	0.6	465
6	Dynamics of antibody response to BNT162b2 vaccine after six months: a longitudinal prospective study. <i>Lancet Regional Health - Europe</i> , The, 2021, 10, 100208.	3.0	446
7	Autoantibodies neutralizing type I IFNs are present in ~4% of uninfected individuals over 70 years old and account for ~20% of COVID-19 deaths. <i>Science Immunology</i> , 2021, 6, .	5.6	357
8	X-linked recessive TLR7 deficiency in ~1% of men under 60 years old with life-threatening COVID-19. <i>Science Immunology</i> , 2021, 6, .	5.6	267
9	AIRE-Deficient Patients Harbor Unique High-Affinity Disease-Ameliorating Autoantibodies. <i>Cell</i> , 2016, 166, 582-595.	13.5	228
10	Human genetic and immunological determinants of critical COVID-19 pneumonia. <i>Nature</i> , 2022, 603, 587-598.	13.7	216
11	Preexisting autoantibodies to type I IFNs underlie critical COVID-19 pneumonia in patients with APS-1. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	185
12	Age-related profiling of DNA methylation in CD8+ T cells reveals changes in immune response and transcriptional regulator genes. <i>Scientific Reports</i> , 2015, 5, 13107.	1.6	148
13	Post-Aire Maturation of Thymic Medullary Epithelial Cells Involves Selective Expression of Keratinocyte-Specific Autoantigens. <i>Frontiers in Immunology</i> , 2012, 3, 19.	2.2	123
14	MicroRNA Expression Profiles of Human Blood Monocyte-derived Dendritic Cells and Macrophages Reveal miR-511 as Putative Positive Regulator of Toll-like Receptor 4. <i>Journal of Biological Chemistry</i> , 2011, 286, 26487-26495.	1.6	121
15	Pathogenic implications for autoimmune mechanisms derived by comparative eQTL analysis of CD4+ versus CD8+ T cells. <i>PLoS Genetics</i> , 2017, 13, e1006643.	1.5	110
16	The risk of COVID-19 death is much greater and age dependent with type I IFN autoantibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200413119.	3.3	110
17	Mucocutaneous candidiasis and autoimmunity against cytokines in APECED and thymoma patients: Clinical and pathogenetic implications. <i>European Journal of Immunology</i> , 2011, 41, 1517-1527.	1.6	106
18	Human Peripheral Lymphoid Tissues Contain Autoimmune Regulator-Expressing Dendritic Cells. <i>American Journal of Pathology</i> , 2010, 176, 1104-1112.	1.9	101

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19	Interferon autoantibodies associated with AIRE deficiency decrease the expression of IFN-stimulated genes. <i>Blood</i> , 2008, 112, 2657-2666.	0.6	98
20	Modulation of Aire regulates the expression of tissue-restricted antigens. <i>Molecular Immunology</i> , 2008, 45, 25-33.	1.0	92
21	Autoimmune Regulator Deficiency Results in Decreased Expression of CCR4 and CCR7 Ligands and in Delayed Migration of CD4+ Thymocytes. <i>Journal of Immunology</i> , 2009, 183, 7682-7691.	0.4	90
22	Epigenetic profiling in CD4+ and CD8+ T cells from Graves' disease patients reveals changes in genes associated with T cell receptor signaling. <i>Journal of Autoimmunity</i> , 2016, 67, 46-56.	3.0	88
23	Autoimmune Polyendocrinopathy Candidiasis Ectodermal Dystrophy. <i>Journal of Clinical Immunology</i> , 2015, 35, 463-478.	2.0	87
24	Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy: known and novel aspects of the syndrome. <i>Annals of the New York Academy of Sciences</i> , 2011, 1246, 77-91.	1.8	82
25	AIRE activated tissue specific genes have histone modifications associated with inactive chromatin. <i>Human Molecular Genetics</i> , 2009, 18, 4699-4710.	1.4	81
26	DNA-PK contributes to the phosphorylation of AIRE: Importance in transcriptional activity. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 74-83.	1.9	70
27	miR-146b Probably Assists miRNA-146a in the Suppression of Keratinocyte Proliferation and Inflammatory Responses in Psoriasis. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1945-1954.	0.3	68
28	Longitudinal proteomic profiling reveals increased early inflammation and sustained apoptosis proteins in severe COVID-19. <i>Scientific Reports</i> , 2020, 10, 20533.	1.6	66
29	Anti-Cytokine Autoantibodies Preceding Onset of Autoimmune Polyendocrine Syndrome Type I Features in Early Childhood. <i>Journal of Clinical Immunology</i> , 2013, 33, 1341-1348.	2.0	63
30	Recessive inborn errors of type I IFN immunity in children with COVID-19 pneumonia. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	59
31	A highly conserved NF- κ B-responsive enhancer is critical for thymic expression of Aire in mice. <i>European Journal of Immunology</i> , 2015, 45, 3246-3256.	1.6	55
32	The follow-up of asymptomatic persons with antibodies to pyruvate dehydrogenase in adult population samples. <i>Journal of Gastroenterology</i> , 2001, 36, 248-254.	2.3	54
33	Anti-cytokine autoantibodies suggest pathogenetic links with autoimmune regulator deficiency in humans and mice. <i>Clinical and Experimental Immunology</i> , 2013, 171, 263-272.	1.1	52
34	DNA breaks and chromatin structural changes enhance the transcription of autoimmune regulator target genes. <i>Journal of Biological Chemistry</i> , 2017, 292, 6542-6554.	1.6	52
35	Increased microRNA-323-3p in IL-22/IL-17-producing T cells and asthma: a role in the regulation of the TGF- β 2 pathway and IL-22 production. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017, 72, 55-65.	2.7	48
36	Autoantibody Repertoire in APECED Patients Targets Two Distinct Subgroups of Proteins. <i>Frontiers in Immunology</i> , 2017, 8, 976.	2.2	48

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37	Clinical and Serologic Parallels to APS-I in Patients with Thymomas and Autoantigen Transcripts in Their Tumors. <i>Journal of Immunology</i> , 2014, 193, 3880-3890.	0.4	46
38	C-reactive protein upregulates the whole blood expression of CD59 - an integrative analysis. <i>PLoS Computational Biology</i> , 2017, 13, e1005766.	1.5	44
39	Monocytes present age-related changes in phospholipid concentration and decreased energy metabolism. <i>Aging Cell</i> , 2020, 19, e13127.	3.0	42
40	Flow Cytometry Study of Blood Cell Subtypes Reflects Autoimmune and Inflammatory Processes in Autoimmune Polyendocrine Syndrome Type I. <i>Scandinavian Journal of Immunology</i> , 2010, 71, 459-467.	1.3	41
41	Interferon signature in patients with <i>STAT1</i> gain-of-function mutation is epigenetically determined. <i>European Journal of Immunology</i> , 2019, 49, 790-800.	1.6	39
42	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. <i>Science Immunology</i> , 2023, 8, .	5.6	35
43	Signs of innate immune activation and premature immunosenescence in psoriasis patients. <i>Scientific Reports</i> , 2017, 7, 7553.	1.6	34
44	Allergoid-mannan conjugates reprogram monocytes into tolerogenic dendritic cells via epigenetic and metabolic rewiring. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 212-222.e9.	1.5	34
45	Interferon and Interferon-inducible Gene Activation in Patients with Type 1 Diabetes. <i>Scandinavian Journal of Immunology</i> , 2014, 80, 283-292.	1.3	32
46	NickFect type of cell-penetrating peptides present enhanced efficiency for microRNA-146a delivery into dendritic cells and during skin inflammation. <i>Biomaterials</i> , 2020, 262, 120316.	5.7	32
47	DNA methylation signatures of the AIRE promoter in thymic epithelial cells, thymomas and normal tissues. <i>Molecular Immunology</i> , 2011, 49, 518-526.	1.0	30
48	Pregnancy-induced thymic involution is associated with suppression of chemokines essential for T lymphoid progenitor homing. <i>European Journal of Immunology</i> , 2016, 46, 2008-2017.	1.6	30
49	LIPS method for the detection of SARS-CoV-2 antibodies to spike and nucleocapsid proteins. <i>European Journal of Immunology</i> , 2020, 50, 1234-1236.	1.6	30
50	Loss-of-function mutation in <i>IKZF2</i> leads to immunodeficiency with dysregulated germinal center reactions and reduction of MAIT cells. <i>Science Immunology</i> , 2021, 6, eabe3454.	5.6	30
51	Genome-wide promoter analysis of histone modifications in human monocyte-derived antigen presenting cells. <i>BMC Genomics</i> , 2010, 11, 642.	1.2	29
52	Oxidative stress in leucocytospermic prostatitis patients: preliminary results. <i>Andrologia</i> , 2008, 40, 161-172.	1.0	28
53	CpG sites associated with NRP1, NRXN2 and miR-29b-2 are hypomethylated in monocytes during ageing. <i>Immunity and Ageing</i> , 2014, 11, 1.	1.8	26
54	AIRE-induced apoptosis is associated with nuclear translocation of stress sensor protein GAPDH. <i>Biochemical and Biophysical Research Communications</i> , 2012, 423, 32-37.	1.0	24

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55	IL-6-specific autoantibodies among APECED and thymoma patients. <i>Immunity, Inflammation and Disease</i> , 2016, 4, 235-243.	1.3	24
56	IL-22 neutralizing autoantibodies impair fungal clearance in murine oropharyngeal candidiasis model. <i>European Journal of Immunology</i> , 2018, 48, 464-470.	1.6	24
57	Breakdown of Immune Tolerance in AIRE-Deficient Rats Induces a Severe Autoimmune Polyendocrinopathy-like Candidiasis-like Ectodermal Dystrophy-like Autoimmune Disease. <i>Journal of Immunology</i> , 2018, 201, 874-887.	0.4	24
58	MicroRNA-155 is Dysregulated in the Skin of Patients with Vitiligo and Inhibits Melanogenesis-associated Genes in Melanocytes and Keratinocytes. <i>Acta Dermato-Venereologica</i> , 2014, 96, 742-7.	0.6	23
59	Primary biliary cirrhosis: a multi-faced interactive disease involving genetics, environment and the immune response. <i>Apmis</i> , 2012, 120, 857-871.	0.9	21
60	<i>In vivo</i> analysis of helper T cell responses in patients with autoimmune polyendocrinopathy-like candidiasis-like ectodermal dystrophy provides evidence in support of an IL-22 defect. <i>Autoimmunity</i> , 2014, 47, 556-562.	1.2	21
61	Lymphoid Stress Surveillance Response Contributes to Vitiligo Pathogenesis. <i>Frontiers in Immunology</i> , 2018, 9, 2707.	2.2	21
62	From Your Nose to Your Toes: A Review of Severe Acute Respiratory Syndrome Coronavirus 2 Pandemic-associated Pernio. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2791-2796.	0.3	21
63	Long-Term Elevated Inflammatory Protein Levels in Asymptomatic SARS-CoV-2 Infected Individuals. <i>Frontiers in Immunology</i> , 2021, 12, 709759.	2.2	21
64	TNF superfamily members play distinct roles in shaping the thymic stromal microenvironment. <i>Molecular Immunology</i> , 2016, 72, 92-102.	1.0	18
65	Epigenetic quantification of immunosenescent CD8 ⁺ TEMRA cells in human blood. <i>Aging Cell</i> , 2022, 21, e13607.	3.0	18
66	Lymphopenia-Induced Proliferation in Aire-Deficient Mice Helps to Explain Their Autoimmunity and Differences from Human Patients. <i>Frontiers in Immunology</i> , 2014, 5, 51.	2.2	16
67	Delineating the Healthy Human Skin UV Response and Early Induction of Interferon Pathway in Cutaneous Lupus Erythematosus. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2058-2061.e4.	0.3	16
68	Anticommensal Responses Are Associated with Regulatory T Cell Defect in Autoimmune Polyendocrinopathy-like Candidiasis-like Ectodermal Dystrophy Patients. <i>Journal of Immunology</i> , 2016, 196, 2955-2964.	0.4	15
69	Irf4 Expression in Thymic Epithelium Is Critical for Thymic Regulatory T Cell Homeostasis. <i>Journal of Immunology</i> , 2017, 198, 1952-1960.	0.4	15
70	Aortic Calcification in a Patient with a Gain-of-Function STAT1 Mutation. <i>Journal of Clinical Immunology</i> , 2018, 38, 468-470.	2.0	15
71	Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy and other primary immunodeficiency diseases help to resolve the nature of protective immunity against chronic mucocutaneous candidiasis. <i>Current Opinion in Pediatrics</i> , 2013, 25, 715-721.	1.0	14
72	IL-22 Paucity in APECED Is Associated With Mucosal and Microbial Alterations in Oral Cavity. <i>Frontiers in Immunology</i> , 2020, 11, 838.	2.2	14

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73	SP140L, an Evolutionarily Recent Member of the SP100 Family, Is an Autoantigen in Primary Biliary Cirrhosis. <i>Journal of Immunology Research</i> , 2015, 2015, 1-17.	0.9	13
74	Impaired salivary gland activity in patients with autoimmune polyendocrine syndrome type I. <i>Autoimmunity</i> , 2017, 50, 211-222.	1.2	13
75	Ultrastructure of medullary thymic epithelial cells of autoimmune regulator (Aire)-deficient mice. <i>Immunology and Cell Biology</i> , 2010, 88, 50-56.	1.0	12
76	Dysregulation of adaptive immune responses in complement C3-deficient patients. <i>European Journal of Immunology</i> , 2015, 45, 915-921.	1.6	12
77	Differential levels of IFN γ subtypes in autoimmunity and viral infection. <i>Cytokine</i> , 2021, 144, 155533.	1.4	12
78	Enzyme-linked immunosorbent assays for the determination of IgG, IgA, and IgM autoantibodies to pyruvate dehydrogenase in primary biliary cirrhosis. <i>International Journal of Clinical and Laboratory Research</i> , 1994, 24, 98-101.	1.0	11
79	Prevalence of SARS-CoV-2 IgG antibodies and their association with clinical symptoms of COVID-19 in Estonia (KoroSero-EST-1 study). <i>Vaccine</i> , 2021, 39, 5376-5384.	1.7	9
80	Propensity to excessive proinflammatory response in chronic Lyme borreliosis. <i>Apmis</i> , 2007, 115, 134-141.	0.9	8
81	Higher FoxP3 mRNA expression in peripheral blood mononuclear cells of GAD65 or IA-2 autoantibody-positive compared with autoantibody-negative persons. <i>Apmis</i> , 2008, 116, 896-902.	0.9	7
82	Comment on 'Aberrant type 1 immunity drives susceptibility to mucosal fungal infections'. <i>Science</i> , 2021, 373, eabi6235.	6.0	7
83	Antibody levels remain high to one-year's follow-up after moderate and severe COVID-19, but not after mild cases. <i>Infectious Diseases</i> , 2022, 54, 345-355.	1.4	7
84	Metallophilic macrophages are fully developed in the thymus of autoimmune regulator (Aire)-deficient mice. <i>Histochemistry and Cell Biology</i> , 2009, 131, 643-649.	0.8	6
85	Aire-dependent transcripts escape Raver2-induced splice-event inclusion in the thymic epithelium. <i>EMBO Reports</i> , 2022, 23, e53576.	2.0	6
86	Clinical, Genetic and Immunological Characteristics of Paediatric Autoimmune Polyglandular Syndrome Type 1 Patients in Slovenia / Klinične, Genetske in Imunološke Značilnosti Otrokov In Mladostnikov Z Avtoimunskim Poliglandularnim Sindromom Tipa 1 V Sloveniji. <i>Zdravstveno Varstvo</i> , 2015, 54, 112-118.	0.6	5
87	Response to comment on 'AIRE-deficient patients harbor unique high-affinity disease-ameliorating autoantibodies'. <i>ELife</i> , 2019, 8, .	2.8	4
88	Unexplained cyanosis caused by hepatopulmonary syndrome in a girl with APECED syndrome. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2017, 30, 365-369.	0.4	3
89	Double Trouble? CMC with a Mutation in both AIRE and STAT1. <i>Journal of Clinical Immunology</i> , 2018, 38, 635-637.	2.0	3
90	S95021, a novel selective and pan-neutralizing anti interferon alpha (IFN α) monoclonal antibody as a candidate treatment for selected autoimmune rheumatic diseases. <i>Journal of Translational Autoimmunity</i> , 2021, 4, 100093.	2.0	3

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91	Human CD4 + and CD8 + T lymphocyte subpopulations have significantly different surface expression patterns of CD226 and TIGIT molecules. <i>Scandinavian Journal of Immunology</i> , 2021, 94, e13089.	1.3	3
92	Loss of AIRE-Mediated Immune Tolerance and the Skin. <i>Journal of Investigative Dermatology</i> , 2021, , .	0.3	3
93	Persistently Increased Anti-cytokine Antibodies Without Clinical Disease in a Boy with APS1 Genotype. <i>Journal of Clinical Immunology</i> , 2022, 42, 433-436.	2.0	2
94	Incontinentia pigmenti in a female conceived by in vitro fertilization. <i>American Journal of Medical Genetics, Part A</i> , 2008, 146A, 3092-3094.	0.7	1
95	Ursodeoxycholic acid treatment lowers the serum level of antibodies against pyruvate dehydrogenase and influences their inhibitory capacity for the enzyme complex in patients with primary biliary cirrhosis. <i>Journal of Molecular Medicine</i> , 1996, 74, 269-274.	1.7	1
96	Intracellular energetic units in cardiac cells: Targets in primary biliary cirrhosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2002, 34, A57.	0.9	0
97	Serological description of Estonian patients with Lyme disease, a comparison with control sera from endemic and non-endemic areas. <i>International Journal of Medical Microbiology Supplements</i> , 2004, 293, 174-178.	0.8	0
98	OR.88. Identification of a Subset of AIRE Expressing Dendritic Cell in Human Peripheral Lymphoid Tissues: Evidences for a Role in the Induction of Peripheral Tolerance. <i>Clinical Immunology</i> , 2009, 131, S36-S37.	1.4	0
99	Unstimulated Adult Human B Cells Include an IL-10+ Population with Suppressive Properties and an Activated Phenotype. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 1150-1156.	1.1	0
100	Autoimmune Diseases Arising out of Single Gene Defects. , 2016, , 142-149.		0
101	Metabolic fitness is decreased in monocytes of old individuals. <i>Aging</i> , 2020, 12, 18791-18792.	1.4	0
102	Metabolic fitness is decreased in monocytes of old individuals. <i>Aging</i> , 2020, 12, 18791-18792.	1.4	0