

Derek Middleton

List of Publications by Year in descending order

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118
papers

6,873
citations

101496

36
h-index

62565

80
g-index

121
all docs

121
docs citations

121
times ranked

8741
citing authors

#	ARTICLE	IF	CITATIONS
1	Human NK Cell Education by Inhibitory Receptors for MHC Class I. Immunity, 2006, 25, 331-342.	6.6	1,026
2	Allele frequency net 2015 update: new features for HLA epitopes, KIR and disease and HLA adverse drug reaction associations. Nucleic Acids Research, 2015, 43, D784-D788.	6.5	693
3	Allele frequency net: a database and online repository for immune gene frequencies in worldwide populations. Nucleic Acids Research, 2011, 39, D913-D919.	6.5	637
4	New allele frequency database: http://www.allelefrequencies.net . Tissue Antigens, 2003, 61, 403-407.	1.0	366
5	Allele frequency net database (AFND) 2020 update: gold-standard data classification, open access genotype data and new query tools. Nucleic Acids Research, 2020, 48, D783-D788.	6.5	352
6	Aggregates from mutant and wild-type α -synuclein proteins and NAC peptide induce apoptotic cell death in human neuroblastoma cells by formation of β -sheet and amyloid-like filaments. FEBS Letters, 1998, 440, 71-75.	1.3	329
7	The extensive polymorphism of KIR genes. Immunology, 2010, 129, 8-19.	2.0	244
8	Natural killer cells and their receptors. Transplant Immunology, 2002, 10, 147-164.	0.6	159
9	Determination of HLA-A, -B, -C, -DRB1 allele and haplotype frequency in Japanese population based on family study. Tissue Antigens, 2015, 85, 252-259.	1.0	138
10	Killer-cell Immunoglobulin-like Receptor (KIR) Nomenclature Report, 2002. Human Immunology, 2003, 64, 648-654.	1.2	135
11	A common KIR2DS4 deletion variant in the human that predicts a soluble KIR molecule analogous to the KIR1D molecule observed in the rhesus monkey. Tissue Antigens, 2002, 60, 254-258.	1.0	129
12	Allele Frequencies Net Database: Improvements for storage of individual genotypes and analysis of existing data. Human Immunology, 2016, 77, 238-248.	1.2	107
13	KIR haplotype content at the allele level in 77 Northern Irish families. Immunogenetics, 2007, 59, 145-158.	1.2	98
14	Immunogenetics as a tool in anthropological studies. Immunology, 2011, 133, 143-164.	2.0	87
15	Distinct diversity of KIR genes in three southern Indian populations: comparison with world populations revealed a link between KIR gene content and pre-historic human migrations. Immunogenetics, 2008, 60, 207-217.	1.2	85
16	Activating Killer Cell Immunoglobulin-Like Receptor Gene KIR2DS1 Is Associated With Psoriatic Arthritis. Human Immunology, 2005, 66, 836-841.	1.2	84
17	Studies on the Expression of the Deleted KIR2DS4*003 Gene Product and Distribution of KIR2DS4 Deleted and Nondeleted Versions in Different Populations. Human Immunology, 2007, 68, 128-134.	1.2	82
18	Analysis of the distribution of HLA-A alleles in populations from five continents. Human Immunology, 2000, 61, 1048-1052.	1.2	81

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19	The silent KIR3DP1 gene (CD158c) is transcribed and might encode a secreted receptor in a minority of humans, in whom the KIR3DP1, KIR2DL4 and KIR3DL1/KIR3DS1 genes are duplicated. <i>European Journal of Immunology</i> , 2005, 35, 16-24.	1.6	71
20	KIR genes. <i>Transplant Immunology</i> , 2005, 14, 135-142.	0.6	70
21	Common and well-documented HLA alleles over all of Europe and within European subregions: A catalogue from the European Federation for Immunogenetics. <i>Hla</i> , 2017, 89, 104-113.	0.4	68
22	Modification of an HLA-B PCR-SSOP typing system leading to improved allele determination. <i>Tissue Antigens</i> , 1995, 45, 232-236.	1.0	66
23	Killer immunoglobulin receptor gene and allele frequencies in Caucasoid, Oriental and Black populations from different continents. <i>Tissue Antigens</i> , 2008, 71, 105-113.	1.0	64
24	KIR genes polymorphism in Argentinean Caucasoid and Amerindian populations. <i>Tissue Antigens</i> , 2007, 69, 568-576.	1.0	53
25	Duplication, mutation and recombination of the human orphan gene KIR2DS3 contribute to the diversity of KIR haplotypes. <i>Genes and Immunity</i> , 2008, 9, 431-437.	2.2	52
26	Killer immunoglobulin-like receptors (KIR2DL2 and/or KIR2DS2) in presence of their ligand (HLA-C1). <i>Tissue Antigens</i> , 2007, 69, 568-576.	1.0	52
27	Linkage disequilibrium organization of the human KIR superlocus: implications for KIR data analyses. <i>Immunogenetics</i> , 2010, 62, 729-740.	1.2	52
28	A community standard for immunogenomic data reporting and analysis: proposal for a Strengthening the Reporting of Immunogenomic Studies statement. <i>Tissue Antigens</i> , 2011, 78, 333-344.	1.0	50
29	HLA class I allele distribution of a Hong Kong Chinese population based on high-resolution PCR-SSOP typing. <i>Tissue Antigens</i> , 2004, 63, 555-561.	1.0	48
30	Investigation of killer cell immunoglobulin-like receptor gene diversity: II. KIR2DS4. <i>Human Immunology</i> , 2004, 65, 613-621.	1.2	47
31	Frequency of HLA-B alleles in a caucasoid population determined by a two-stage PCR-SSOP typing strategy. <i>Human Immunology</i> , 2000, 61, 1285-1297.	1.2	41
32	Multiple copies of KIR 3DL/S1 and KIR 2DL4 genes identified in a number of individuals. <i>Human Immunology</i> , 2003, 64, 729-732.	1.2	41
33	A bioinformatics tool for epitope-based vaccine design that accounts for human ethnic diversity: Application to emerging infectious diseases. <i>Vaccine</i> , 2015, 33, 1267-1273.	1.7	40
34	Analysis of killer immunoglobulin-like receptor genes in ankylosing spondylitis. <i>Annals of the Rheumatic Diseases</i> , 2009, 68, 595-598.	0.5	39
35	Strategies to work with HLA data in human populations for histocompatibility, clinical transplantation, epidemiology and population genetics: HLA-NET methodological recommendations. <i>International Journal of Immunogenetics</i> , 2012, 39, 459-476.	0.8	39
36	Study of KIR genes in tuberculosis patients. <i>Tissue Antigens</i> , 2006, 68, 386-389.	1.0	38

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37	Allele Frequency Net Database. <i>Methods in Molecular Biology</i> , 2018, 1802, 49-62.	0.4	38
38	Distribution of HLA alleles in Portugal and Cabo Verde. Relationships with the slave trade route. <i>Annals of Human Genetics</i> , 2002, 66, 285-296.	0.3	37
39	Investigation of killer cell immunoglobulin-like receptor gene diversity: IV. KIR3DL1/S1. <i>Human Immunology</i> , 2004, 65, 602-612.	1.2	37
40	16 th IHIW: Population Global Distribution of Killer Immunoglobulin-like Receptor (KIR) and Ligands. <i>International Journal of Immunogenetics</i> , 2013, 40, 39-45.	0.8	34
41	2DL1, 2DL2 and 2DL3 all contribute to KIR phenotype variability on human NK cells. <i>Genes and Immunity</i> , 2015, 16, 301-310.	2.2	34
42	Genetic association studies of tumour necrosis factor $\hat{\pm}$ and \hat{I}^2 and tumour necrosis factor receptor 1 and 2 polymorphisms across the clinical spectrum of multiple sclerosis. <i>Journal of Neurology</i> , 1999, 246, 1051-1058.	1.8	32
43	Investigation of killer cell immunoglobulinlike receptor gene diversity: I. KIR2DL4. <i>Human Immunology</i> , 2004, 65, 31-38.	1.2	31
44	Analysis of KIR gene frequencies in HLA class I characterised bladder, colorectal and laryngeal tumours. <i>Tissue Antigens</i> , 2007, 69, 220-226.	1.0	31
45	Allele Frequencies Database. <i>Transfusion Medicine and Hemotherapy</i> , 2014, 41, 352-355.	0.7	31
46	No association of KIR genes with Behcet's disease. <i>Tissue Antigens</i> , 2007, 70, 435-438.	1.0	29
47	A new DRB1 allele DRB1*1107 – a combination of DRB1*11 and DRB1*03. <i>Tissue Antigens</i> , 1993, 42, 160-163.	1.0	28
48	A database for curating the associations between killer cell immunoglobulin-like receptors and diseases in worldwide populations. <i>Database: the Journal of Biological Databases and Curation</i> , 2013, bat021.	1.4	27
49	Nothing's perfect: The art of defining HLA-specific antibodies. <i>Transplant Immunology</i> , 2014, 30, 115-121.	0.6	26
50	No Impact of KIR-Ligand Mismatch on Allograft Outcome in HLA-Compatible Kidney Transplantation. <i>American Journal of Transplantation</i> , 2013, 13, 1063-1068.	2.6	24
51	A web resource for mining HLA associations with adverse drug reactions: HLA-ADR. <i>Database: the Journal of Biological Databases and Curation</i> , 2016, 2016, baw069.	1.4	24
52	Investigation of killer cell immunoglobulin-like receptor gene diversity V. KIR3DL2. <i>Tissue Antigens</i> , 2004, 64, 226-234.	1.0	23
53	Diagnostic PCR with <i>Leishmania donovani</i> specificity using sequences from the variable region of kinetoplast minicircle DNA. <i>Tropical Medicine and International Health</i> , 1999, 4, 448-453.	1.0	22
54	The Influence of Transforming Growth Factor- \hat{I}^2 1 Gene Polymorphisms on the Severity of Gingival Overgrowth Associated With Concomitant Use of Cyclosporin A and a Calcium Channel Blocker. <i>Journal of Periodontology</i> , 2001, 72, 808-814.	1.7	22

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55	Predictive immunogenetic markers in COVID-19. <i>Human Immunology</i> , 2021, 82, 247-254.	1.2	22
56	A bioinformatics approach to ascertaining the rarity of HLA alleles. <i>Tissue Antigens</i> , 2009, 74, 480-485.	1.0	21
57	Receptor systems controlling natural killer cell function are genetically stratified in Europe. <i>Genes and Immunity</i> , 2010, 11, 67-78.	2.2	21
58	Molecular typing of HLA class I and class II antigens in Indian kala-azar patients. <i>Tropical Medicine and International Health</i> , 1997, 2, 468-471.	1.0	20
59	Investigation of KIR Gene Frequencies in Type 1 Diabetes Mellitus. <i>Human Immunology</i> , 2006, 67, 986-990.	1.2	20
60	A new DQw1 associated antigen : HLA-DR*Br*™. <i>Tissue Antigens</i> , 2008, 26, 210-211.	1.0	20
61	Frequency of HLA-A and B alleles in early and late-onset Alzheimer's disease. <i>Neuroscience Letters</i> , 1999, 262, 140-142.	1.0	19
62	Imbalance of Genes Encoding Natural Killer Immunoglobulin-Like Receptors and Human Leukocyte Antigen in Patients With Biliary Cancer. <i>Gastroenterology</i> , 2019, 157, 1067-1080.e9.	0.6	19
63	Association of HLA*DRB1 with HLA*DQw3. <i>Tissue Antigens</i> , 1988, 31, 79-82.	1.0	18
64	Investigation of killer cell immunoglobulin-like receptor gene diversity III. KIR2DL3. <i>Tissue Antigens</i> , 2004, 64, 188-194.	1.0	18
65	Killer cell immunoglobulin-like receptor allele discrimination by high-resolution melting. <i>Human Immunology</i> , 2009, 70, 858-863.	1.2	18
66	Killer Immunoglobulin-like Receptors (KIR) haplogroups A and B track with Natural Killer Cells and Cytokine Profile in Aged Subjects: Observations from Octo/Nonagenarians in the Belfast Elderly Longitudinal Free-living Aging Study (BELFAST). <i>Immunity and Ageing</i> , 2013, 10, 35.	1.8	17
67	Investigation of killer cell immunoglobulin-like receptor (KIR) gene diversity: KIR2DL2, KIR2DL5 and KIR2DS5. <i>Tissue Antigens</i> , 2008, 72, 11-20.	1.0	16
68	Investigation of killer cell immunoglobulin-like receptor gene diversity, <i>KIR2DL1</i> and <i>KIR2DS1</i> . <i>Tissue Antigens</i> , 2008, 72, 383-391.	1.0	16
69	Workshop report: extending the number of resources and bioinformatics analysis for the investigation of HLA rare alleles. <i>International Journal of Immunogenetics</i> , 2012, 40, n/a-n/a.	0.8	16
70	Discrepancies in serological tissue typing revealed by DNA techniques. <i>Transplant International</i> , 1988, 1, 161-164.	0.8	14
71	No association in frequency of KIR receptors in patients with rheumatoid arthritis from Northern Ireland. <i>Tissue Antigens</i> , 2007, 69, 577-582.	1.0	14
72	No association of KIR3DL1 or KIR3DS1 or their alleles with ankylosing spondylitis. <i>Tissue Antigens</i> , 2010, 75, 68-73.	1.0	14

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73	A Proteome-Wide Immunoinformatics Tool to Accelerate T-Cell Epitope Discovery and Vaccine Design in the Context of Emerging Infectious Diseases: An Ethnicity-Oriented Approach. <i>Frontiers in Immunology</i> , 2021, 12, 598778.	2.2	14
74	Discrepancies in serological tissue typing revealed by DNA techniques. <i>Transplant International</i> , 1988, 1, 161-164.	0.8	13
75	HLA-A, -B, -C, and -DRB1 genotyping and haplotype frequencies for a Hong Kong Chinese population of 7595 individuals. <i>Human Immunology</i> , 2016, 77, 1111-1112.	1.2	13
76	A snapshot of human leukocyte antigen (HLA) diversity using data from the Allele Frequency Net Database. <i>Human Immunology</i> , 2021, 82, 496-504.	1.2	13
77	Different Evolution of Inhibitory and Activating Killer Immunoglobulin Receptors (KIR) in Worldwide Human Populations. <i>The Open Immunology Journal</i> , 2008, 1, 42-50.	1.5	13
78	History of DNA typing for the human MHC. <i>Reviews in Immunogenetics</i> , 1999, 1, 135-56.	0.7	13
79	Characterization of human killer immunoglobulin-like receptors (KIRs) among healthy Saudis. <i>Human Immunology</i> , 2014, 75, 536-540.	1.2	12
80	An HLA-DRB1*04 first domain sequence (DRB1*0416) which differs from HLA-DRB1*0401 at codon 59. <i>Tissue Antigens</i> , 1994, 43, 44-46.	1.0	9
81	Impact of sensitivity of human leucocyte antigen antibody detection by Luminex technology on graft loss at 1 year. <i>CKJ: Clinical Kidney Journal</i> , 2013, 6, 283-286.	1.4	9
82	High resolution allele genotyping and haplotype frequencies for NGS based HLA 11 loci of 5266 Hong Kong Chinese bone marrow donors. <i>Human Immunology</i> , 2020, 81, 577-579.	1.2	9
83	Identification of medically important pathogenic fungi by reference strand-mediated conformational analysis (RSCA). <i>Journal of Medical Microbiology</i> , 2002, 51, 468-478.	0.7	9
84	Lack of association between KIR and HLA-C type and susceptibility to idiopathic bronchiectasis. <i>Respiratory Medicine</i> , 2014, 108, 1127-1133.	1.3	8
85	Estimation of optimal donor number in Bone Marrow Donor Registry: Hong Kong's experience. <i>Human Immunology</i> , 2017, 78, 610-613.	1.2	8
86	FREQUENCY OF HLA-DPB1 ALLELES IN MULTIPLE SCLEROSIS PATIENTS FROM NORTHERN IRELAND. <i>International Journal of Immunogenetics</i> , 1992, 19, 323-326.	1.2	7
87	A HLA-Cw*03 allele, Cw*0322Q with limited or no expression.. <i>Tissue Antigens</i> , 2006, 67, 343-345.	1.0	7
88	HLA antigen frequencies and Wegener's granulomatosis. <i>Clinical Otolaryngology</i> , 2009, 16, 448-451.	0.0	7
89	A Bw6-associated B44 allele (B*4409) identified by SSOP and corresponding serological results. <i>Tissue Antigens</i> , 1997, 49, 655-657.	1.0	6
90	Characterisation of a new HLA-B allele, HLA-B*0724 (Note). <i>Tissue Antigens</i> , 2001, 57, 471-473.	1.0	6

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91	Introducing a new manuscript format: Enabling access to immunogenomic population data with short population reports. <i>Human Immunology</i> , 2015, 76, 393-394.	1.2	6
92	HLA-A, -B and -DRB1 genotyping and haplotype frequencies of 3892 cord blood units in the Hong Kong Chinese Cord Blood Registry. <i>Human Immunology</i> , 2016, 77, 1109-1110.	1.2	6
93	BSHI/BTS guidance on crossmatching before deceased donor kidney transplantation. <i>International Journal of Immunogenetics</i> , 2022, 49, 22-29.	0.8	5
94	Matching for HLA-DPB1 alleles in zero mismatched HLA-A, -B, and -DR renal transplants. <i>Transplantation Proceedings</i> , 1992, 24, 2439-40.	0.3	5
95	No association of HLA class II antigens in chronic fatigue syndrome. <i>Disease Markers</i> , 1991, 9, 47-9.	0.6	4
96	Five new TaqI DRB1 polymorphisms. <i>Human Immunology</i> , 1991, 31, 145-147.	1.2	3
97	Parvovirus B19 and Chronic Fatigue Syndrome. <i>The Journal of Chronic Fatigue Syndrome: Multidisciplinary Innovations in Research and Clinical Practice</i> , 1997, 3, 101-107.	0.4	3
98	Interaction between immunoglobulin allotypes and NK receptor genes in diabetes post-hepatitis C virus infection. <i>Immunobiology</i> , 2011, 216, 686-691.	0.8	3
99	Simulation of non-inherited maternal antigens acceptable HLA mismatches to increase the chance of matched cord blood units: Hong Kong's experience. <i>Human Immunology</i> , 2018, 79, 539-544.	1.2	3
100	HLA-DQB1, -DQA1, -DPB1, and -DPA1 genotyping and haplotype frequencies for a Hong Kong Chinese population of 1064 individuals. <i>Human Immunology</i> , 2020, 81, 3-5.	1.2	3
101	PCR-Sequence-Specific Oligonucleotide Probe Typing for HLA-A, -B, and -DR. , 2003, 210, 67-112.		2
102	Next generation HLA typing and haplotypes by descent in Gaza individuals. <i>Human Immunology</i> , 2020, 81, 1-2.	1.2	2
103	Effect on sensitisation of giving HLA-DR-matched blood to potential renal transplant recipients. <i>Transplantation Proceedings</i> , 1992, 24, 2535-6.	0.3	2
104	Techniques used to define human MHC antigens: restriction fragment length polymorphisms. <i>Immunology Letters</i> , 1991, 29, 31-35.	1.1	1
105	Sequence analysis of spontaneously-arising mutations at the <i>apr1</i> locus in wild-type and thymidine kinase-deficient Friend cells: Evidence for strand slippage-misalignment mechanism in formation of deletions. <i>Biochemical Society Transactions</i> , 1997, 25, 127S-127S.	1.6	1
106	Critical Evaluation of the Amino Acid Triplet-Epitope Matching Concept in Cadaver Kidney Transplantation.. <i>Transplantation</i> , 2004, 77, 801-802.	0.5	1
107	A Tribute to Professor Kenneth Ian Welsh 17 August 1944-12 August 2014. <i>International Journal of Immunogenetics</i> , 2015, 42, 1-3.	0.8	1
108	Revisit of Optimal Donor Number Estimation in the Hong Kong Bone Marrow Donor Registry. <i>Frontiers in Immunology</i> , 2021, 12, 638253.	2.2	1

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109	THE QUESTION OP WHETHER PREVIOUS EXPOSURE TO HLA-DR ANTIGENS IS A Hazard In Renal. Transplantation, 1988, 45, 809.	0.5	0
110	Irish Association For Rheumatology And Rehabilitation Annual General Meeting, Friday, Nov. 4Th At Beaumont Hospital. Irish Journal of Medical Science, 1989, 158, 132-136.	0.8	0
111	Irish nephrological society. Irish Journal of Medical Science, 1995, 164, 297-302.	0.8	0
112	Hepatitis B and HIV testing of HLA reagents. Tissue Antigens, 2008, 29, 280-280.	1.0	0
113	Update on short population reports. Human Immunology, 2016, 77, 617.	1.2	0
114	Publication Ethos in the Immunogenetics community. International Journal of Immunogenetics, 2017, 44, 151-152.	0.8	0
115	Renal transplantation in Northern Ireland 1968-1990. Ulster Medical Journal, 1992, 61, 24-8.	0.2	0
116	Matching for various HLA class II loci in cadaveric renal transplantation using DNA techniques. Transplantation, 1992, 53, 1138-41.	0.5	0
117	Transfusion of one HLA-DR antigen-matched blood to potential recipients of a renal allograft. Transplantation, 1994, 58, 845-8.	0.5	0
118	One thousand renal transplants in Belfast (1968-1998). Clinical Transplants, 2004, , 151-64.	0.2	0