

# Andrew G Brooks

## List of Publications by Year in descending order

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100  
papers

7,577  
citations

53794

45  
h-index

54911

84  
g-index

101  
all docs

101  
docs citations

101  
times ranked

9767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recognition of Human Histocompatibility Leukocyte Antigen (HLA)-E Complexed with HLA Class I Signal Sequence-derived Peptides by CD94/NKG2 Confers Protection from Natural Killer Cell-mediated Lysis. <i>Journal of Experimental Medicine</i> , 1998, 187, 813-818.	8.5	639
2	Crystal structure of an NK cell immunoglobulin-like receptor in complex with its class I MHC ligand. <i>Nature</i> , 2000, 405, 537-543.	27.8	386
3	Neutrophils Ameliorate Lung Injury and the Development of Severe Disease during Influenza Infection. <i>Journal of Immunology</i> , 2009, 183, 7441-7450.	0.8	275
4	Spatiotemporally Distinct Interactions with Dendritic Cell Subsets Facilitates CD4+ and CD8+ T Cell Activation to Localized Viral Infection. <i>Immunity</i> , 2015, 43, 554-565.	14.3	255
5	T Cell Allorecognition via Molecular Mimicry. <i>Immunity</i> , 2009, 31, 897-908.	14.3	232
6	Progression of Armed CTL from Draining Lymph Node to Spleen Shortly After Localized Infection with Herpes Simplex Virus 1. <i>Journal of Immunology</i> , 2002, 168, 834-838.	0.8	214
7	Critical Role of Airway Macrophages in Modulating Disease Severity during Influenza Virus Infection of Mice. <i>Journal of Virology</i> , 2010, 84, 7569-7580.	3.4	210
8	Resident memory CD8 <sup>+</sup> T cells in the upper respiratory tract prevent pulmonary influenza virus infection. <i>Science Immunology</i> , 2017, 2, .	11.9	205
9	Cross-Reactive Influenza-Specific Antibody-Dependent Cellular Cytotoxicity Antibodies in the Absence of Neutralizing Antibodies. <i>Journal of Immunology</i> , 2013, 190, 1837-1848.	0.8	200
10	CD94-NKG2A recognition of human leukocyte antigen (HLA)-E bound to an HLA class I leader sequence. <i>Journal of Experimental Medicine</i> , 2008, 205, 725-735.	8.5	198
11	Antiviral Activity of the Long Chain Pentraxin PTX3 against Influenza Viruses. <i>Journal of Immunology</i> , 2008, 180, 3391-3398.	0.8	196
12	A Naturally Selected Dimorphism within the HLA-B44 Supertype Alters Class I Structure, Peptide Repertoire, and T Cell Recognition. <i>Journal of Experimental Medicine</i> , 2003, 198, 679-691.	8.5	192
13	Killer cell immunoglobulin-like receptor 3DL1-mediated recognition of human leukocyte antigen B. <i>Nature</i> , 2011, 479, 401-405.	27.8	174
14	Natural HLA Class I Polymorphism Controls the Pathway of Antigen Presentation and Susceptibility to Viral Evasion. <i>Journal of Experimental Medicine</i> , 2004, 200, 13-24.	8.5	159
15	Herpes Simplex Virus-Specific CD8+ T Cells Can Clear Established Lytic Infections from Skin and Nerves and Can Partially Limit the Early Spread of Virus after Cutaneous Inoculation. <i>Journal of Immunology</i> , 2004, 172, 392-397.	0.8	158
16	The Role of Neutrophils during Mild and Severe Influenza Virus Infections of Mice. <i>PLoS ONE</i> , 2011, 6, e17618.	2.5	155
17	Crystal structure of the human T cell receptor CD3 heterodimer complexed to the therapeutic mAb OKT3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7675-7680.	7.1	148
18	The role of neutrophils in the upper and lower respiratory tract during influenza virus infection of mice. <i>Respiratory Research</i> , 2008, 9, 57.	3.6	146

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19	Conformational Plasticity Revealed by the Cocrystal Structure of NKG2D and Its Class I MHC-like Ligand ULBP3. <i>Immunity</i> , 2001, 15, 1039-1049.	14.3	139
20	Primeâ€“boost immunization generates a high frequency, high-avidity CD8+ cytotoxic T lymphocyte population. <i>International Immunology</i> , 2002, 14, 31-37.	4.0	122
21	N-Linked Glycosylation Facilitates Sialic Acid-Independent Attachment and Entry of Influenza A Viruses into Cells Expressing DC-SIGN or L-SIGN. <i>Journal of Virology</i> , 2011, 85, 2990-3000.	3.4	113
22	Polymorphism in Human Cytomegalovirus UL40 Impacts on Recognition of Human Leukocyte Antigen-E (HLA-E) by Natural Killer Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 8679-8690.	3.4	111
23	Structural basis for a major histocompatibility complex class Ibâ€“restricted T cell response. <i>Nature Immunology</i> , 2006, 7, 256-264.	14.5	109
24	A bird's eye view of <sc>NK</sc> cell receptor interactions with their <sc>MHC</sc> class I ligands. <i>Immunological Reviews</i> , 2015, 267, 148-166.	6.0	96
25	Pandemic H1N1 Influenza A Viruses Are Resistant to the Antiviral Activities of Innate Immune Proteins of the Collectin and Pentraxin Superfamilies. <i>Journal of Immunology</i> , 2010, 185, 4284-4291.	0.8	95
26	The Shaping of T Cell Receptor Recognition by Self-Tolerance. <i>Immunity</i> , 2009, 30, 193-203.	14.3	94
27	Structure of killer cell immunoglobulin-like receptors and their recognition of the class I MHC molecules. <i>Immunological Reviews</i> , 2001, 181, 66-78.	6.0	92
28	Neutrophils sustain effective CD8<sup>+</sup> Tâ€“cell responses in the respiratory tract following influenza infection. <i>Immunology and Cell Biology</i> , 2012, 90, 197-205.	2.3	89
29	Subtle Changes in Peptide Conformation Profoundly Affect Recognition of the Non-Classical MHC Class I Molecule HLA-E by the CD94â€“NKG2 Natural Killer Cell Receptors. <i>Journal of Molecular Biology</i> , 2008, 377, 1297-1303.	4.2	88
30	The Heterodimeric Assembly of the CD94-NKG2 Receptor Family and Implications for Human Leukocyte Antigen-E Recognition. <i>Immunity</i> , 2007, 27, 900-911.	14.3	87
31	MHC-I peptides get out of the groove and enable a novel mechanism of HIV-1 escape. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 387-394.	8.2	83
32	Depletion of Gr-1+, but not Ly6G+, immune cells exacerbates virus replication and disease in an intranasal model of herpes simplex virus type 1 infection. <i>Journal of General Virology</i> , 2010, 91, 2158-2166.	2.9	81
33	Killer cell immunoglobulin-like receptor 3DL1 polymorphism defines distinct hierarchies of HLA class I recognition. <i>Journal of Experimental Medicine</i> , 2016, 213, 791-807.	8.5	81
34	Distinct APC Subtypes Drive Spatially Segregated CD4+ and CD8+ T-Cell Effector Activity during Skin Infection with HSV-1. <i>PLoS Pathogens</i> , 2014, 10, e1004303.	4.7	75
35	Specific Sites of <i>N</i>-Linked Glycosylation on the Hemagglutinin of H1N1 Subtype Influenza A Virus Determine Sensitivity to Inhibitors of the Innate Immune System and Virulence in Mice. <i>Journal of Immunology</i> , 2011, 187, 1884-1894.	0.8	74
36	Peptide-Dependent Recognition of HLA-B*57:01 by KIR3DS1. <i>Journal of Virology</i> , 2015, 89, 5213-5221.	3.4	67

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37	Downregulation of MHC Class I Expression by Influenza A and B Viruses. <i>Frontiers in Immunology</i> , 2019, 10, 1158.	4.8	65
38	Age-Associated Cross-reactive Antibody-Dependent Cellular Cytotoxicity Toward 2009 Pandemic Influenza A Virus Subtype H1N1. <i>Journal of Infectious Diseases</i> , 2013, 208, 1051-1061.	4.0	62
39	Glycosylation as a Target for Recognition of Influenza Viruses by the Innate Immune System. , 2007, 598, 279-292.		61
40	The fate of influenza A virus after infection of human macrophages and dendritic cells. <i>Journal of General Virology</i> , 2012, 93, 2315-2325.	2.9	59
41	Host Cell Restriction Factors that Limit Influenza A Infection. <i>Viruses</i> , 2017, 9, 376.	3.3	58
42	Loss of a single N-linked glycan from the hemagglutinin of influenza virus is associated with resistance to collectins and increased virulence in mice. <i>Respiratory Research</i> , 2009, 10, 117.	3.6	52
43	Killer cell immunoglobulin-like receptor 3DL1 variation modifies HLA-B*57 protection against HIV-1. <i>Journal of Clinical Investigation</i> , 2018, 128, 1903-1912.	8.2	52
44	The C-type Lectin Langerin Functions as a Receptor for Attachment and Infectious Entry of Influenza A Virus. <i>Journal of Virology</i> , 2016, 90, 206-221.	3.4	51
45	Nasal-associated lymphoid tissues (NALTs) support the recall but not priming of influenza virus-specific cytotoxic T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5225-5230.	7.1	49
46	Glycosylation of the hemagglutinin modulates the sensitivity of H3N2 influenza viruses to innate proteins in airway secretions and virulence in mice. <i>Virology</i> , 2011, 413, 84-92.	2.4	48
47	Cell-surface receptors on macrophages and dendritic cells for attachment and entry of influenza virus. <i>Journal of Leukocyte Biology</i> , 2012, 92, 97-106.	3.3	48
48	Mutational and Structural Analysis of KIR3DL1 Reveals a Lineage-Defining Allotypic Dimorphism That Impacts Both HLA and Peptide Sensitivity. <i>Journal of Immunology</i> , 2014, 192, 2875-2884.	0.8	48
49	NK cells contribute to the early clearance of HSV-1 from the lung but cannot control replication in the central nervous system following intranasal infection. <i>European Journal of Immunology</i> , 2006, 36, 897-905.	2.9	45
50	Addition of Glycosylation to Influenza A Virus Hemagglutinin Modulates Antibody-Mediated Recognition of H1N1 2009 Pandemic Viruses. <i>Journal of Immunology</i> , 2013, 190, 2169-2177.	0.8	45
51	Endocytic function is critical for influenza A virus infection via DC-SIGN and L-SIGN. <i>Scientific Reports</i> , 2016, 6, 19428.	3.3	44
52	Infection of Mouse Macrophages by Seasonal Influenza Viruses Can Be Restricted at the Level of Virus Entry and at a Late Stage in the Virus Life Cycle. <i>Journal of Virology</i> , 2015, 89, 12319-12329.	3.4	42
53	Targeting of a natural killer cell receptor family by a viral immunoevasin. <i>Nature Immunology</i> , 2013, 14, 699-705.	14.5	41
54	The Macrophage Galactose-Type Lectin Can Function as an Attachment and Entry Receptor for Influenza Virus. <i>Journal of Virology</i> , 2014, 88, 1659-1672.	3.4	41

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55	The Structure of the Atypical Killer Cell Immunoglobulin-like Receptor, KIR2DL4. <i>Journal of Biological Chemistry</i> , 2015, 290, 10460-10471.	3.4	38
56	Herpes Simplex Virus Type 1-Specific Cytotoxic T-Lymphocyte Arming Occurs within Lymph Nodes Draining the Site of Cutaneous Infection. <i>Journal of Virology</i> , 2000, 74, 2414-2419.	3.4	37
57	Aberrant Development of Thymocytes in Mice Lacking Laminin-2. <i>Autoimmunity</i> , 2000, 7, 179-193.	0.6	36
58	Soluble Host Defense Lectins in Innate Immunity to Influenza Virus. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-14.	3.0	34
59	The molecular basis for peptide repertoire selection in the human leukocyte antigen (HLA) C*06:02 molecule. <i>Journal of Biological Chemistry</i> , 2017, 292, 17203-17215.	3.4	34
60	Influenza viruses differ in ability to infect macrophages and to induce a local inflammatory response following intraperitoneal injection of mice. <i>Immunology and Cell Biology</i> , 2010, 88, 641-650.	2.3	32
61	Gr-1+ cells, but not neutrophils, limit virus replication and lesion development following flank infection of mice with herpes simplex virus type-1. <i>Virology</i> , 2010, 407, 143-151.	2.4	30
62	Diverse roles of non-diverse molecules: MHC class Ib molecules in host defense and control of autoimmunity. <i>Current Opinion in Immunology</i> , 2011, 23, 104-110.	5.5	30
63	A Single Amino Acid Substitution in the Hemagglutinin of H3N2 Subtype Influenza A Viruses Is Associated with Resistance to the Long Pentraxin PTX3 and Enhanced Virulence in Mice. <i>Journal of Immunology</i> , 2014, 192, 271-281.	0.8	30
64	Classical Type 1 Dendritic Cells Dominate Priming of Th1 Responses to Herpes Simplex Virus Type 1 Skin Infection. <i>Journal of Immunology</i> , 2019, 202, 653-663.	0.8	27
65	The Interaction of KIR3DL1*001 with HLA Class I Molecules Is Dependent upon Molecular Microarchitecture within the Bw4 Epitope. <i>Journal of Immunology</i> , 2015, 194, 781-789.	0.8	25
66	Correlation between sialic acid expression and infection of murine macrophages by different strains of influenza virus. <i>Microbes and Infection</i> , 2011, 13, 202-207.	1.9	24
67	Porcine cells express more than one functional ligand for the human lymphocyte activating receptor NKG2D. <i>Xenotransplantation</i> , 2008, 15, 321-332.	2.8	23
68	Inhibition of lectin-mediated innate host defences in vivo modulates disease severity during influenza virus infection. <i>Immunology and Cell Biology</i> , 2011, 89, 482-491.	2.3	23
69	Structural plasticity of KIR2DL2 and KIR2DL3 enables altered docking geometries atop HLA-C. <i>Nature Communications</i> , 2021, 12, 2173.	12.8	21
70	The human cytomegalovirus glycoprotein UL16 traffics through the plasma membrane and the nuclear envelope. <i>Cellular Microbiology</i> , 2006, 8, 581-590.	2.1	20
71	A conserved energetic footprint underpins recognition of human leukocyte antigen-E by two distinct $\alpha\beta$ T cell receptors. <i>Journal of Biological Chemistry</i> , 2017, 292, 21149-21158.	3.4	20
72	Pattern recognition receptor immunomodulation of innate immunity as a strategy to limit the impact of influenza virus. <i>Journal of Leukocyte Biology</i> , 2017, 101, 851-861.	3.3	20

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73	CD8+ T cell landscape in Indigenous and non-Indigenous people restricted by influenza mortality-associated HLA-A*24:02 allomorph. <i>Nature Communications</i> , 2021, 12, 2931.	12.8	20
74	Recognition of the Major Histocompatibility Complex (MHC) Class Ib Molecule H2-Q10 by the Natural Killer Cell Receptor Ly49C. <i>Journal of Biological Chemistry</i> , 2016, 291, 18740-18752.	3.4	19
75	Unique Transcriptional Architecture in Airway Epithelial Cells and Macrophages Shapes Distinct Responses following Influenza Virus Infection Ex Vivo. <i>Journal of Virology</i> , 2019, 93, .	3.4	19
76	The Presence of HLA-E-Restricted, CMV-Specific CD8+ T Cells in the Blood of Lung Transplant Recipients Correlates with Chronic Allograft Rejection. <i>PLoS ONE</i> , 2015, 10, e0135972.	2.5	18
77	Virus infection expands a biased subset of T cells that bind tetrameric class I peptide complexes. <i>European Journal of Immunology</i> , 2003, 33, 1557-1567.	2.9	17
78	IFITM3 and type I interferons are important for the control of influenza A virus replication in murine macrophages. <i>Virology</i> , 2020, 540, 17-22.	2.4	17
79	Harnessing HLA-E-restricted CD8 T lymphocytes for adoptive cell therapy of patients with severe COVID-19. <i>British Journal of Haematology</i> , 2020, 190, e185-e187.	2.5	17
80	The Ly49 natural killer cell receptors: a versatile tool for viral self-discrimination. <i>Immunology and Cell Biology</i> , 2014, 92, 214-220.	2.3	16
81	The molecular basis of how buried human leukocyte antigen polymorphism modulates natural killer cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11636-11647.	7.1	16
82	The Structure of the Cytomegalovirus-Encoded m04 Glycoprotein, a Prototypical Member of the m02 Family of Immuno-evasins. <i>Journal of Biological Chemistry</i> , 2014, 289, 23753-23763.	3.4	15
83	Estradiol Enhances Antiviral CD4 <sup>+</sup> Tissue-Resident Memory T Cell Responses following Mucosal Herpes Simplex Virus 2 Vaccination through an IL-17-Mediated Pathway. <i>Journal of Virology</i> , 2020, 95, .	3.4	15
84	HLA-E-restricted CD8+ T Lymphocytes Efficiently Control Mycobacterium tuberculosis and HIV-1 Coinfection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 430-439.	2.9	13
85	Natural killer cell receptors regulate responses of HLA-E-restricted T cells. <i>Science Immunology</i> , 2021, 6, .	11.9	13
86	The Role of the HLA Class I $\alpha$ 2 Helix in Determining Ligand Hierarchy for the Killer Cell Ig-like Receptor 3DL1. <i>Journal of Immunology</i> , 2021, 206, 849-860.	0.8	12
87	Endogenous Murine BST-2/Tetherin Is Not a Major Restriction Factor of Influenza A Virus Infection. <i>PLoS ONE</i> , 2015, 10, e0142925.	2.5	12
88	Activating killer cell immunoglobulin-like receptor haplotype influences clinical outcome following HLA-matched sibling haematopoietic stem cell transplantation. <i>Hla</i> , 2018, 92, 74-82.	0.6	11
89	IFITM Proteins That Restrict the Early Stages of Respiratory Virus Infection Do Not Influence Late-Stage Replication. <i>Journal of Virology</i> , 2021, 95, e0083721.	3.4	11
90	DC-SIGN and L-SIGN Are Attachment Factors That Promote Infection of Target Cells by Human Metapneumovirus in the Presence or Absence of Cellular Glycosaminoglycans. <i>Journal of Virology</i> , 2016, 90, 7848-7863.	3.4	9

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91	Enrichment of Cytomegalovirus-induced NKG2C+ Natural Killer Cells in the Lung Allograft. Transplantation, 2019, 103, 1689-1699.	1.0	9
92	Receptor specificity of the influenza virus hemagglutinin modulates sensitivity to soluble collectins of the innate immune system and virulence in mice. Virology, 2011, 413, 128-138.	2.4	8
93	MHC Class Ib-Restricted CD8 T Cells Differ in Dependence on CD4 T Cell Help and CD28 Costimulation over the Course of Mouse Polyomavirus Infection. Journal of Immunology, 2012, 188, 3071-3079.	0.8	7
94	Changes in Gut Microbiota Prior to Influenza A Virus Infection Do Not Affect Immune Responses in Pups or Juvenile Mice. Frontiers in Cellular and Infection Microbiology, 2018, 8, 319.	3.9	7
95	Cytomegalovirus replication is associated with enrichment of distinct T cell subsets following lung transplantation: A novel therapeutic approach?. Journal of Heart and Lung Transplantation, 2020, 39, 1300-1312.	0.6	7
96	Mouse Mx1 Inhibits Herpes Simplex Virus Type 1 Genomic Replication and Late Gene Expression In Vitro and Prevents Lesion Formation in the Mouse Zosteriform Model. Journal of Virology, 2022, 96, .	3.4	6
97	The production and purification of the human T-cell receptors, the CD3 $\alpha$ and CD3 $\beta$ heterodimers: complex formation and crystallization with OKT3, a therapeutic monoclonal antibody. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1425-1428.	2.5	4
98	Neutralizing inhibitors in the airways of naïve ferrets do not play a major role in modulating the virulence of H3 subtype influenza A viruses. Virology, 2016, 494, 143-157.	2.4	3
99	Broadening our knowledge of the differences between HIV-2 and HIV-1 innate sensing. Aids, 2019, 33, 153-154.	2.2	1
100	Limited Internodal Migration of T Follicular Helper Cells after Peripheral Infection with Herpes Simplex Virus-1. Journal of Immunology, 2015, 195, 4892-4899.	0.8	0