Tim J Elliott

List of Publications by Year in descending order

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118 papers	7,605 citations	53660 45 h-index	54797 84 g-index
210 all docs	210 docs citations	210 times ranked	7706 citing authors

#	Article	IF	Citations
1	Glycosylation and the Immune System. Science, 2001, 291, 2370-2376.	6.0	1,487
2	Conformational Studies of Oligosaccharides and Glycopeptides:â€‰ Complementarity of NMR, X-ray Crystallography, and Molecular Modelling. Chemical Reviews, 2002, 102, 371-386.	23.0	400
3	Optimization of the MHC Class I Peptide Cargo Is Dependent on Tapasin. Immunity, 2002, 16, 509-520.	6.6	340
4	Depletion of CD25+ regulatory cells uncovers immune responses to shared murine tumor rejection antigens. European Journal of Immunology, 2002, 32, 3267-3275.	1.6	257
5	Peptide-induced conformational change of the class I heavy chain. Nature, 1991, 351, 402-406.	13.7	229
6	Assembly and Antigen-Presenting Function of MHC Class I Molecules in Cells Lacking the ER Chaperone Calreticulin. Immunity, 2002, 16, 99-109.	6.6	217
7	Lymphoblastoid cells express HLA-B27 homodimers both intracellularly and at the cell surface following endosomal recycling. European Journal of Immunology, 2003, 33, 748-759.	1.6	170
8	Tapasin enhances MHC class I peptide presentation according to peptide half-life. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11737-11742.	3.3	168
9	Peptide antagonism as a mechanism for NK cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10160-10165.	3.3	139
10	Evidence for successive peptide binding and quality control stages during MHC class I assembly. Current Biology, 1998, 8, 717-721.	1.8	131
11	Point mutations in the Î±2 domain of HLA-A2.1 define a functionally relevant interaction with TAP. Current Biology, 1996, 6, 873-883.	1.8	126
12	Naturally Processed HLA Class II Peptides Reveal Highly Conserved Immunogenic Flanking Region Sequence Preferences That Reflect Antigen Processing Rather Than Peptide-MHC Interactions. Journal of Immunology, 2001, 166, 6720-6727.	0.4	125
13	Naturally Occurring ERAP1 Haplotypes Encode Functionally Distinct Alleles with Fine Substrate Specificity. Journal of Immunology, 2013, 191, 35-43.	0.4	125
14	Genes encoded in the major histocompatibility complex affecting the generation of peptides for TAP transport. European Journal of Immunology, 1995, 25, 554-562.	1.6	123
15	Crystal Structures of Two H-2Db/Glycopeptide Complexes Suggest a Molecular Basis for CTL Cross-Reactivity. Immunity, 1999, 10, 63-74.	6.6	121
16	Presentation of Cytosolic Glycosylated Peptides by Human Class I Major Histocompatibility Complex Molecules in Vivo. Journal of Experimental Medicine, 1999, 190, 145-150.	4.2	101
17	Assembly and export of MHC class I peptide ligands. Current Opinion in Immunology, 2003, 15, 75-81.	2.4	100
18	The optimization of peptide cargo bound to MHC class I molecules by the peptide-loading complex. Immunological Reviews, 2005, 207, 89-99.	2.8	91

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19	DNA Fusion Vaccine Designed to Induce Cytotoxic T Cell Responses Against Defined Peptide Motifs: Implications for Cancer Vaccines. Journal of Immunology, 2001, 167, 1558-1565.	0.4	90
20	The oxidoreductase ERp57 efficiently reduces partially folded in preference to fully folded MHC class I molecules. EMBO Journal, 2002, 21, 2655-2663.	3.5	90
21	Functionally distinct ERAP1 allotype combinations distinguish individuals with Ankylosing Spondylitis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17594-17599.	3.3	90
22	TAPBPR alters MHC class I peptide presentation by functioning as a peptide exchange catalyst. ELife, 2015, 4, .	2.8	87
23	Multiple Antigen-Specific Processing Pathways for Activating Naive CD8+ T Cells In Vivo. Journal of Immunology, 2001, 166, 4355-4362.	0.4	85
24	Calreticulin-dependent recycling in the early secretory pathway mediates optimal peptide loading of MHC class I molecules. EMBO Journal, 2009, 28, 3730-3744.	3.5	78
25	Peptide anchor residue glycosylation: effect on class I major histocompatibility complex binding and cytotoxic T lymphocyte recognition. European Journal of Immunology, 1995, 25, 3270-3276.	1.6	74
26	Peptide selection by class I molecules of the major histocompatibility complex. Current Biology, 1993, 3, 854-866.	1.8	71
27	Critical Role of Endoplasmic Reticulum Aminopeptidase 1 in Determining the Length and Sequence of Peptides Bound and Presented by HLAâ€“B27. Arthritis and Rheumatology, 2014, 66, 284-294.	2.9	71
28	Selector function of MHC I molecules is determined by protein plasticity. Scientific Reports, 2015, 5, 14928.	1.6	69
29	Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7. European Journal of Immunology, 1995, 25, 18-24.	1.6	66
30	TAPBPR bridges UDP-glucose:glycoprotein glucosyltransferase 1 onto MHC class I to provide quality control in the antigen presentation pathway. ELife, 2017, 6, .	2.8	66
31	Invariant NKT Cells Promote CD8+ Cytotoxic T Cell Responses by Inducing CD70 Expression on Dendritic Cells. Journal of Immunology, 2008, 180, 4615-4620.	0.4	65
32	Transporter Associated with Antigen Processing**This article was accepted for publication on 1 October 1996.. Advances in Immunology, 1997, , 47-109.	1.1	63
33	Induction of Protective Antitumor Immunity through Attenuation of ERAAP Function. Journal of Immunology, 2013, 190, 5839-5846.	0.4	62
34	Tapasin dependence of major histocompatibility complex class I molecules correlates with their conformational flexibility. FASEB Journal, 2011, 25, 3989-3998.	0.2	61
35	How does TAP associate with MHC class I molecules?. Trends in Immunology, 1997, 18, 375-379.	7.5	58
36	CD1b-restricted GEM T cell responses are modulated byMycobacterium tuberculosismycolic acid meromycolate chains. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10956-E10964.	3.3	58

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37	Peptide-independent stabilization of MHC class I molecules breaches cellular quality control*. Journal of Cell Science, 2014, 127, 2885-97.	1.2	57
38	HLA-A*0201 presents TAP-dependent peptide epitopes to cytotoxic T lymphocytes in the absence of tapasin. European Journal of Immunology, 1998, 28, 3214-3220.	1.6	56
39	A Mechanistic Basis for the Co-evolution of Chicken Tapasin and Major Histocompatibility Complex Class I (MHC I) Proteins. Journal of Biological Chemistry, 2013, 288, 32797-32808.	1.6	55
40	Molecular machinations of the MHC-I peptide loading complex. Current Opinion in Immunology, 2008, 20, 75-81.	2.4	54
41	The pathway of crossâ€presentation is influenced by the particle size of phagocytosed antigen. Immunology, 2012, 136, 163-175.	2.0	52
42	Direct deprotected glycosylâ€“asparagine ligation. Chemical Communications, 2006, , 1401.	2.2	51
43	HLA tapasin independence: broader peptide repertoire and HIV control. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28232-28238.	3.3	51
44	ERp57 Does Not Require Interactions with Calnexin and Calreticulin to Promote Assembly of Class I Histocompatibility Molecules, and It Enhances Peptide Loading Independently of Its Redox Activity. Journal of Biological Chemistry, 2009, 284, 10160-10173.	1.6	47
45	The newly-arisen Devil facial tumour disease 2 (DFT2) reveals a mechanism for the emergence of a contagious cancer. ELife, 2018, 7, .	2.8	47
46	Structural requirements for the peptide-induced conformational change of free major histocompatibility complex class I heavy chains. European Journal of Immunology, 1992, 22, 2085-2091.	1.6	46
47	Solid-Phase Synthesis of 89 Polyamine-Based Cationic Lipids for DNA Delivery to Mammalian Cells. Chemistry - A European Journal, 2004, 10, 463-473.	1.7	46
48	Distinct Molecular Signature of Human Skin Langerhans Cells Denotes Critical Differences in Cutaneous Dendritic Cell Immune Regulation. Journal of Investigative Dermatology, 2014, 134, 695-703.	0.3	46
49	Cholesteryl esters stabilize human CD1c conformations for recognition by self-reactive T cells. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1266-75.	3.3	41
50	Dynamically Driven Allostery in MHC Proteins: Peptide-Dependent Tuning of Class I MHC Global Flexibility. Frontiers in Immunology, 2019, 10, 966.	2.2	41
51	Polymer microarrays: Identification of substrates for phagocytosis assays. Biomaterials, 2006, 27, 5299-5306.	5.7	40
52	A Peptide Filtering Relation Quantifies MHC Class I Peptide Optimization. PLoS Computational Biology, 2011, 7, e1002144.	1.5	39
53	Increased Valency of Conserved-mosaic Vaccines Enhances the Breadth and Depth of Epitope Recognition. Molecular Therapy, 2016, 24, 375-384.	3.7	35
54	A Mechanistic Model for Predicting Cell Surface Presentation of Competing Peptides by MHC Class I Molecules. Frontiers in Immunology, 2018, 9, 1538.	2.2	35

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55	Recent advances in Major Histocompatibility Complex (MHC) class I antigen presentation: Plastic MHC molecules and TAPBPR-mediated quality control. F1000Research, 2017, 6, 158.	0.8	34
56	Synthesis and inâ€...vitro Evaluation of Î±â€GalCer Epimers. ChemMedChem, 2008, 3, 1061-1070.	1.6	33
57	The Crystal Structure of H-2Db Complexed with a Partial Peptide Epitope Suggests a Major Histocompatibility Complex Class I Assembly Intermediate. Journal of Biological Chemistry, 2006, 281, 12699-12704.	1.6	32
58	Tapasin shapes immunodominance hierarchies according to the kinetic stability of peptide â€“ MHC classâ€„I complexes. European Journal of Immunology, 2008, 38, 364-369.	1.6	32
59	Differential Suppression of Tumor-Specific CD8+ T Cells by Regulatory T Cells. Journal of Immunology, 2010, 185, 5048-5055.	0.4	32
60	Glycan-regulated Antigen Processing of a Protein in the Endoplasmic Reticulum Can Uncover Cryptic Cytotoxic T Cell Epitopes. Journal of Experimental Medicine, 1998, 188, 773-778.	4.2	31
61	The processing of antigens delivered as DNA vaccines. Immunological Reviews, 2004, 199, 27-39.	2.8	30
62	The Inhibitory Receptor NKG2A Determines Lysis of Vaccinia Virus-Infected Autologous Targets by NK Cells. Journal of Immunology, 2006, 176, 1141-1147.	0.4	30
63	Synthesis and In Vivo Evaluation of 4-Deoxy-4,4-difluoro-KRN7000. Organic Letters, 2008, 10, 4433-4436.	2.4	30
64	Absence of Tapasin Alters Immunodominance against a Lymphocytic Choriomeningitis Virus Polytope. Journal of Immunology, 2010, 184, 73-83.	0.4	30
65	Naturally processed peptides. Nature, 1990, 348, 195-196.	13.7	29
66	Malaria systems immunology: Plasmodium vivax induces tolerance during primary infection through dysregulation of neutrophils and dendritic cells. Journal of Infection, 2018, 77, 440-447.	1.7	29
67	CD8⁺ Tâ€cell crossâ€competition is governed by peptideâ€“MHC class I stability. European Journal of Immunology, 2012, 42, 256-263.	1.6	28
68	ERAP1 in the pathogenesis of ankylosing spondylitis. Immunologic Research, 2014, 60, 257-269.	1.3	28
69	Direct evidence for conformational dynamics in major histocompatibility complex class I molecules. Journal of Biological Chemistry, 2017, 292, 20255-20269.	1.6	28
70	Structural and Functional Changes of the Invariant NKT Clonal Repertoire in Early Rheumatoid Arthritis. Journal of Immunology, 2015, 195, 5582-5591.	0.4	26
71	Recognition of out-of-frame major histocompatibility complex class I-restricted epitopesin vivo. European Journal of Immunology, 1996, 26, 1175-1179.	1.6	24
72	HPV Epitope Processing Differences Correlate with ERAP1 Allotype and Extent of CD8+ T-cell Tumor Infiltration in OPSCC. Cancer Immunology Research, 2019, 7, 1202-1213.	1.6	24

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73	Plasticity of empty major histocompatibility complex class I molecules determines peptide-selector function. Molecular Immunology, 2015, 68, 98-101.	1.0	22
74	The Synthesis and inâ€…vivo Evaluation of 2â€²,2â€²â€Difluoro KRN7000. ChemMedChem, 2009, 4, 329-334.	1.6	21
75	Breast cancer is a promising target for vaccination using cancer-testis antigens known to elicit immune responses. Breast Cancer Research, 2007, 9, R46.	2.2	20
76	Two Polymorphisms Facilitate Differences in Plasticity between Two Chicken Major Histocompatibility Complex Class I Proteins. PLoS ONE, 2014, 9, e89657.	1.1	20
77	Short peptides assist the folding of free class I heavy chains in solution. European Journal of Immunology, 1992, 22, 3121-3125.	1.6	19
78	Common variable immunodeficiency is associated with aÂfunctional deficiency of invariant natural killer T cells. Journal of Allergy and Clinical Immunology, 2014, 133, 1420-1428.e1.	1.5	19
79	The partial dissociation of MHC class Iâ€“bound peptides exposes their N terminus to trimming by endoplasmic reticulum aminopeptidase 1. Journal of Biological Chemistry, 2018, 293, 7538-7548.	1.6	19
80	A Soluble Major Histocompatibility Complex Class I Peptide-binding Platform Undergoes a Conformational Change in Response to Peptide Epitopes. Journal of Biological Chemistry, 1998, 273, 14200-14204.	1.6	16
81	An Immunodominant MHC Class II-Restricted Tumor Antigen Is Conformation Dependent and Binds to the Endoplasmic Reticulum Chaperone, Calreticulin. Journal of Immunology, 2001, 167, 147-155.	0.4	16
82	Quantitative and qualitative iNKT repertoire associations with disease susceptibility and outcome in macaque tuberculosis infection. Tuberculosis, 2017, 105, 86-95.	0.8	16
83	Identification of novel Tapasin polymorphisms and linkage disequilibrium to MHC class I alleles. Immunogenetics, 2000, 52, 9-11.	1.2	15
84	The Complex Route to MHC Class I-Peptide Complexes. Cell, 2006, 127, 249-251.	13.5	15
85	DNA Transfection Screening from Single Beads. ACS Combinatorial Science, 2004, 6, 753-760.	3.3	14
86	Folding of an MHC class II-restricted tumor antigen controls its antigenicity via MHC-guided processing. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5983-5988.	3.3	13
87	Application of the pMHC Array to Characterise Tumour Antigen Specific T Cell Populations in Leukaemia Patients at Disease Diagnosis. PLoS ONE, 2015, 10, e0140483.	1.1	13
88	The role of MHC I protein dynamics in tapasin and TAPBPR-assisted immunopeptidome editing. Current Opinion in Immunology, 2021, 70, 138-143.	2.4	13
89	More Images that Yet Fresh Images Beget. Immunity, 2009, 30, 1-2.	6.6	12
90	The Influence of CD25+ Cells on the Generation of Immunity to Tumour Cell Lines in Mice. Novartis Foundation Symposium, 2008, , 149-157.	1.2	11

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91	Immunopeptidomic analysis of influenza A virus infected human tissues identifies internal proteins as a rich source of HLA ligands. PLoS Pathogens, 2022, 18, e1009894.	2.1	11
92	Proteasomes, TAP, and Endoplasmic Reticulum-Associated Aminopeptidase Associated with Antigen Processing Control CD4+Th Cell Responses by Regulating Indirect Presentation of MHC Class II-Restricted Cytoplasmic Antigens. Journal of Immunology, 2011, 186, 6683-6692.	0.4	10
93	Human leukocyte antigen (HLA) class II peptide flanking residues tune the immunogenicity of a human tumor-derived epitope. Journal of Biological Chemistry, 2019, 294, 20246-20258.	1.6	10
94	Viral antigen mediated NKp46 activation of NK cells results in tumor rejection via NK-DC crosstalk. OncoImmunology, 2012, 1, 874-883.	2.1	9
95	The Clonal Invariant NKT Cell Repertoire in People with Type 1 Diabetes Is Characterized by a Loss of Clones Expressing High-Affinity TCRs. Journal of Immunology, 2017, 198, 1452-1459.	0.4	9
96	Characterization of the Class I MHC Peptidome Resulting From DNCB Exposure of HaCaT Cells. Toxicological Sciences, 2021, 180, 136-147.	1.4	9
97	Tapping into tumours. Nature Genetics, 1996, 13, 139-140.	9.4	8
98	Kinetics of Abacavir-Induced Remodelling of the Major Histocompatibility Complex Class I Peptide Repertoire. Frontiers in Immunology, 2021, 12, 672737.	2.2	8
99	Depletion of CD25+ regulatory cells uncovers immune responses to shared murine tumor rejection antigens. , 2002, 32, 3267.		8
100	Bone marrow transplantation for MHC class I deficiency corrects T-cell immunity but dissociates natural killer cell repertoire formation from function. Journal of Allergy and Clinical Immunology, 2016, 138, 1733-1736.e2.	1.5	7
101	MHC-Restricted T Cell Responses against Posttranslationally Modified Peptide Antigens. Advances in Immunology, 2001, 78, 267-289.	1.1	6
102	The 'chop-and-change' of MHC class I assembly. Nature Immunology, 2006, 7, 7-9.	7.0	5
103	Both rare and common ERAP1 allotypes have distinct functionality defined by polymorphic context and are important in AS association. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1575-E1576.	3.3	5
104	Protein Plasticity and Peptide Editing in the MHC I Antigen Processing Pathway. Biochemistry, 2018, 57, 1423-1425.	1.2	5
105	Protective low-avidity anti-tumour CD8+ T cells are selectively attenuated by regulatory T cells. Immunotherapy Advances, 2021, 1, ltaa001.	1.2	5
106	Fluctuations in T cell receptor and pMHC interactions regulate T cell activation. Journal of the Royal Society Interface, 2022, 19, 20210589.	1.5	4
107	The multidisciplinary management of nonâ€melanoma conchal bowl skin cancer. Australasian Journal of Dermatology, 2012, 53, 229-232.	0.4	3
108	CasPR and the Unfriendly Host?. CRISPR Journal, 2018, 1, 20-22.	1.4	3

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109	The immunopeptidomes of two transmissible cancers and their host have a common, dominant peptide motif. Immunology, 2021, 163, 169-184.	2.0	2
110	Immunotherapy Advances: One Year On. Immunotherapy Advances, 0, , .	1.2	2
111	Reply to Robinson and Brown: It is the combination of ERAP1 allotypes that identifies individuals with Ankylosing Spondylitis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1817-E1817.	3.3	1
112	Antigen processing movers and shakers. Nature Chemical Biology, 2018, 14, 747-748.	3.9	1
113	Introducing Immunotherapy Advances. Immunotherapy Advances, 2021, 1, .	1.2	1
114	The Role of Calnexin and Calreticulin in MHC Class I Assembly. Molecular Biology Intelligence Unit, 2003, , 85-93.	0.2	1
115	Paper alert: Immunology. Current Opinion in Immunology, 2001, 13, 625-634.	2.4	0
116	Immunogenicity of Calreticulin-Bound Murine Leukemia Virus Glycoprotein gp90. Advances in Experimental Medicine and Biology, 2005, 564, 85-94.	0.8	0
117	Galvanized lunacy. Nature, 2012, 490, 346-347.	13.7	0
118	Ligand Selection and Trafficking for MHC I. , 2016, , 233-240.		0