

Tim J Elliott

List of Publications by Year in descending order

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118
papers

7,605
citations

53794

45
h-index

54911

84
g-index

210
all docs

210
docs citations

210
times ranked

7706
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycosylation and the Immune System. <i>Science</i> , 2001, 291, 2370-2376.	12.6	1,487
2	Conformational Studies of Oligosaccharides and Glycopeptides: Complementarity of NMR, X-ray Crystallography, and Molecular Modelling. <i>Chemical Reviews</i> , 2002, 102, 371-386.	47.7	400
3	Optimization of the MHC Class I Peptide Cargo Is Dependent on Tapasin. <i>Immunity</i> , 2002, 16, 509-520.	14.3	340
4	Depletion of CD25+ regulatory cells uncovers immune responses to shared murine tumor rejection antigens. <i>European Journal of Immunology</i> , 2002, 32, 3267-3275.	2.9	257
5	Peptide-induced conformational change of the class I heavy chain. <i>Nature</i> , 1991, 351, 402-406.	27.8	229
6	Assembly and Antigen-Presenting Function of MHC Class I Molecules in Cells Lacking the ER Chaperone Calreticulin. <i>Immunity</i> , 2002, 16, 99-109.	14.3	217
7	Lymphoblastoid cells express HLA-B27 homodimers both intracellularly and at the cell surface following endosomal recycling. <i>European Journal of Immunology</i> , 2003, 33, 748-759.	2.9	170
8	Tapasin enhances MHC class I peptide presentation according to peptide half-life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11737-11742.	7.1	168
9	Peptide antagonism as a mechanism for NK cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10160-10165.	7.1	139
10	Evidence for successive peptide binding and quality control stages during MHC class I assembly. <i>Current Biology</i> , 1998, 8, 717-721.	3.9	131
11	Point mutations in the β_2 domain of HLA-A2.1 define a functionally relevant interaction with TAP. <i>Current Biology</i> , 1996, 6, 873-883.	3.9	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. <i>Journal of Immunology</i> , 2001, 166, 6720-6727.	0.8	125
13	Naturally Occurring <i>ERAP1</i> Haplotypes Encode Functionally Distinct Alleles with Fine Substrate Specificity. <i>Journal of Immunology</i> , 2013, 191, 35-43.	0.8	125
14	Genes encoded in the major histocompatibility complex affecting the generation of peptides for TAP transport. <i>European Journal of Immunology</i> , 1995, 25, 554-562.	2.9	123
15	Crystal Structures of Two H-2Db/Glycopeptide Complexes Suggest a Molecular Basis for CTL Cross-Reactivity. <i>Immunity</i> , 1999, 10, 63-74.	14.3	121
16	Presentation of Cytosolic Glycosylated Peptides by Human Class I Major Histocompatibility Complex Molecules in Vivo. <i>Journal of Experimental Medicine</i> , 1999, 190, 145-150.	8.5	101
17	Assembly and export of MHC class I peptide ligands. <i>Current Opinion in Immunology</i> , 2003, 15, 75-81.	5.5	100
18	The optimization of peptide cargo bound to MHC class I molecules by the peptide-loading complex. <i>Immunological Reviews</i> , 2005, 207, 89-99.	6.0	91

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19	DNA Fusion Vaccine Designed to Induce Cytotoxic T Cell Responses Against Defined Peptide Motifs: Implications for Cancer Vaccines. <i>Journal of Immunology</i> , 2001, 167, 1558-1565.	0.8	90
20	The oxidoreductase ERp57 efficiently reduces partially folded in preference to fully folded MHC class I molecules. <i>EMBO Journal</i> , 2002, 21, 2655-2663.	7.8	90
21	Functionally distinct ERAP1 allotype combinations distinguish individuals with Ankylosing Spondylitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17594-17599.	7.1	90
22	TAPBPR alters MHC class I peptide presentation by functioning as a peptide exchange catalyst. <i>ELife</i> , 2015, 4, .	6.0	87
23	Multiple Antigen-Specific Processing Pathways for Activating Naive CD8+ T Cells In Vivo. <i>Journal of Immunology</i> , 2001, 166, 4355-4362.	0.8	85
24	Calreticulin-dependent recycling in the early secretory pathway mediates optimal peptide loading of MHC class I molecules. <i>EMBO Journal</i> , 2009, 28, 3730-3744.	7.8	78
25	Peptide anchor residue glycosylation: effect on class I major histocompatibility complex binding and cytotoxic T lymphocyte recognition. <i>European Journal of Immunology</i> , 1995, 25, 3270-3276.	2.9	74
26	Peptide selection by class I molecules of the major histocompatibility complex. <i>Current Biology</i> , 1993, 3, 854-866.	3.9	71
27	Critical Role of Endoplasmic Reticulum Aminopeptidase 1 in Determining the Length and Sequence of Peptides Bound and Presented by HLA-B*27. <i>Arthritis and Rheumatology</i> , 2014, 66, 284-294.	5.6	71
28	Selector function of MHC I molecules is determined by protein plasticity. <i>Scientific Reports</i> , 2015, 5, 14928.	3.3	69
29	Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7. <i>European Journal of Immunology</i> , 1995, 25, 18-24.	2.9	66
30	TAPBPR bridges UDP-glucose:glycoprotein glucosyltransferase 1 onto MHC class I to provide quality control in the antigen presentation pathway. <i>ELife</i> , 2017, 6, .	6.0	66
31	Invariant NKT Cells Promote CD8+ Cytotoxic T Cell Responses by Inducing CD70 Expression on Dendritic Cells. <i>Journal of Immunology</i> , 2008, 180, 4615-4620.	0.8	65
32	Transporter Associated with Antigen Processing**This article was accepted for publication on 1 October 1996.. <i>Advances in Immunology</i> , 1997, , 47-109.	2.2	63
33	Induction of Protective Antitumor Immunity through Attenuation of ERAAP Function. <i>Journal of Immunology</i> , 2013, 190, 5839-5846.	0.8	62
34	Tapasin dependence of major histocompatibility complex class I molecules correlates with their conformational flexibility. <i>FASEB Journal</i> , 2011, 25, 3989-3998.	0.5	61
35	How does TAP associate with MHC class I molecules?. <i>Trends in Immunology</i> , 1997, 18, 375-379.	7.5	58
36	CD1b-restricted GEM T cell responses are modulated by Mycobacterium tuberculosis mycolic acid meromycolate chains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10956-E10964.	7.1	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.	2.0	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.	2.9	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.	3.4	55
40	Molecular machinations of the MHC-I peptide loading complex. Current Opinion in Immunology, 2008, 20, 75-81.	5.5	54
41	The pathway of cross-presentation is influenced by the particle size of phagocytosed antigen. Immunology, 2012, 136, 163-175.	4.4	52
42	Direct deprotected glycosyl-asparagine ligation. Chemical Communications, 2006, , 1401.	4.1	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.	7.1	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.	3.4	47
45	The newly-arisen Devil facial tumour disease 2 (DFT2) reveals a mechanism for the emergence of a contagious cancer. ELife, 2018, 7, .	6.0	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.	2.9	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.	3.3	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.	0.7	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.	7.1	41
50	Dynamically Driven Allostery in MHC Proteins: Peptide-Dependent Tuning of Class I MHC Global Flexibility. Frontiers in Immunology, 2019, 10, 966.	4.8	41
51	Polymer microarrays: Identification of substrates for phagocytosis assays. Biomaterials, 2006, 27, 5299-5306.	11.4	40
52	A Peptide Filtering Relation Quantifies MHC Class I Peptide Optimization. PLoS Computational Biology, 2011, 7, e1002144.	3.2	39
53	Increased Valency of Conserved-mosaic Vaccines Enhances the Breadth and Depth of Epitope Recognition. Molecular Therapy, 2016, 24, 375-384.	8.2	35
54	A Mechanistic Model for Predicting Cell Surface Presentation of Competing Peptides by MHC Class I Molecules. Frontiers in Immunology, 2018, 9, 1538.	4.8	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. <i>F1000Research</i> , 2017, 6, 158.	1.6	34
56	Synthesis and in vitro Evaluation of GalCer Epimers. <i>ChemMedChem</i> , 2008, 3, 1061-1070.	3.2	33
57	The Crystal Structure of H-2Db Complexed with a Partial Peptide Epitope Suggests a Major Histocompatibility Complex Class I Assembly Intermediate. <i>Journal of Biological Chemistry</i> , 2006, 281, 12699-12704.	3.4	32
58	Tapasin shapes immunodominance hierarchies according to the kinetic stability of peptide-MHC class I complexes. <i>European Journal of Immunology</i> , 2008, 38, 364-369.	2.9	32
59	Differential Suppression of Tumor-Specific CD8+ T Cells by Regulatory T Cells. <i>Journal of Immunology</i> , 2010, 185, 5048-5055.	0.8	32
60	Glycan-regulated Antigen Processing of a Protein in the Endoplasmic Reticulum Can Uncover Cryptic Cytotoxic T Cell Epitopes. <i>Journal of Experimental Medicine</i> , 1998, 188, 773-778.	8.5	31
61	The processing of antigens delivered as DNA vaccines. <i>Immunological Reviews</i> , 2004, 199, 27-39.	6.0	30
62	The Inhibitory Receptor NKG2A Determines Lysis of Vaccinia Virus-Infected Autologous Targets by NK Cells. <i>Journal of Immunology</i> , 2006, 176, 1141-1147.	0.8	30
63	Synthesis and In Vivo Evaluation of 4-Deoxy-4,4-difluoro-KRN7000. <i>Organic Letters</i> , 2008, 10, 4433-4436.	4.6	30
64	Absence of Tapasin Alters Immunodominance against a Lymphocytic Choriomeningitis Virus Polytope. <i>Journal of Immunology</i> , 2010, 184, 73-83.	0.8	30
65	Naturally processed peptides. <i>Nature</i> , 1990, 348, 195-196.	27.8	29
66	Malaria systems immunology: Plasmodium vivax induces tolerance during primary infection through dysregulation of neutrophils and dendritic cells. <i>Journal of Infection</i> , 2018, 77, 440-447.	3.3	29
67	CD8 ⁺ T cell cross-competition is governed by peptide-MHC class I stability. <i>European Journal of Immunology</i> , 2012, 42, 256-263.	2.9	28
68	ERAP1 in the pathogenesis of ankylosing spondylitis. <i>Immunologic Research</i> , 2014, 60, 257-269.	2.9	28
69	Direct evidence for conformational dynamics in major histocompatibility complex class I molecules. <i>Journal of Biological Chemistry</i> , 2017, 292, 20255-20269.	3.4	28
70	Structural and Functional Changes of the Invariant NKT Clonal Repertoire in Early Rheumatoid Arthritis. <i>Journal of Immunology</i> , 2015, 195, 5582-5591.	0.8	26
71	Recognition of out-of-frame major histocompatibility complex class I-restricted epitopes in vivo. <i>European Journal of Immunology</i> , 1996, 26, 1175-1179.	2.9	24
72	HPV Epitope Processing Differences Correlate with ERAP1 Allotype and Extent of CD8+ T-cell Tumor Infiltration in OPSCC. <i>Cancer Immunology Research</i> , 2019, 7, 1202-1213.	3.4	24

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73	Plasticity of empty major histocompatibility complex class I molecules determines peptide-selector function. <i>Molecular Immunology</i> , 2015, 68, 98-101.	2.2	22
74	The Synthesis and in vivo Evaluation of 2-Deoxy-2-Fluoro KRN7000. <i>ChemMedChem</i> , 2009, 4, 329-334.	3.2	21
75	Breast cancer is a promising target for vaccination using cancer-testis antigens known to elicit immune responses. <i>Breast Cancer Research</i> , 2007, 9, R46.	5.0	20
76	Two Polymorphisms Facilitate Differences in Plasticity between Two Chicken Major Histocompatibility Complex Class I Proteins. <i>PLoS ONE</i> , 2014, 9, e89657.	2.5	20
77	Short peptides assist the folding of free class I heavy chains in solution. <i>European Journal of Immunology</i> , 1992, 22, 3121-3125.	2.9	19
78	Common variable immunodeficiency is associated with a functional deficiency of invariant natural killer T cells. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 1420-1428.e1.	2.9	19
79	The partial dissociation of MHC class I-bound peptides exposes their N terminus to trimming by endoplasmic reticulum aminopeptidase 1. <i>Journal of Biological Chemistry</i> , 2018, 293, 7538-7548.	3.4	19
80	A Soluble Major Histocompatibility Complex Class I Peptide-binding Platform Undergoes a Conformational Change in Response to Peptide Epitopes. <i>Journal of Biological Chemistry</i> , 1998, 273, 14200-14204.	3.4	16
81	An Immunodominant MHC Class II-Restricted Tumor Antigen Is Conformation Dependent and Binds to the Endoplasmic Reticulum Chaperone, Calreticulin. <i>Journal of Immunology</i> , 2001, 167, 147-155.	0.8	16
82	Quantitative and qualitative iNKT repertoire associations with disease susceptibility and outcome in macaque tuberculosis infection. <i>Tuberculosis</i> , 2017, 105, 86-95.	1.9	16
83	Identification of novel Tapasin polymorphisms and linkage disequilibrium to MHC class I alleles. <i>Immunogenetics</i> , 2000, 52, 9-11.	2.4	15
84	The Complex Route to MHC Class I-Peptide Complexes. <i>Cell</i> , 2006, 127, 249-251.	28.9	15
85	DNA Transfection Screening from Single Beads. <i>ACS Combinatorial Science</i> , 2004, 6, 753-760.	3.3	14
86	Folding of an MHC class II-restricted tumor antigen controls its antigenicity via MHC-guided processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5983-5988.	7.1	13
87	Application of the pMHC Array to Characterise Tumour Antigen Specific T Cell Populations in Leukaemia Patients at Disease Diagnosis. <i>PLoS ONE</i> , 2015, 10, e0140483.	2.5	13
88	The role of MHC I protein dynamics in tapasin and TAPBPR-assisted immunopeptidome editing. <i>Current Opinion in Immunology</i> , 2021, 70, 138-143.	5.5	13
89	More Images that Yet Fresh Images Beget. <i>Immunity</i> , 2009, 30, 1-2.	14.3	12
90	The Influence of CD25+ Cells on the Generation of Immunity to Tumour Cell Lines in Mice. <i>Novartis Foundation Symposium</i> , 2008, , 149-157.	1.1	11

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91	Immuno-peptidomic analysis of influenza A virus infected human tissues identifies internal proteins as a rich source of HLA ligands. <i>PLoS Pathogens</i> , 2022, 18, e1009894.	4.7	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. <i>Journal of Immunology</i> , 2011, 186, 6683-6692.	0.8	10
93	Human leukocyte antigen (HLA) class II peptide flanking residues tune the immunogenicity of a human tumor-derived epitope. <i>Journal of Biological Chemistry</i> , 2019, 294, 20246-20258.	3.4	10
94	Viral antigen mediated NKp46 activation of NK cells results in tumor rejection via NK-DC crosstalk. <i>Oncot Immunology</i> , 2012, 1, 874-883.	4.6	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. <i>Journal of Immunology</i> , 2017, 198, 1452-1459.	0.8	9
96	Characterization of the Class I MHC Peptidome Resulting From DNCB Exposure of HaCaT Cells. <i>Toxicological Sciences</i> , 2021, 180, 136-147.	3.1	9
97	Tapping into tumours. <i>Nature Genetics</i> , 1996, 13, 139-140.	21.4	8
98	Kinetics of Abacavir-Induced Remodelling of the Major Histocompatibility Complex Class I Peptide Repertoire. <i>Frontiers in Immunology</i> , 2021, 12, 672737.	4.8	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. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 1733-1736.e2.	2.9	7
101	MHC-Restricted T Cell Responses against Posttranslationally Modified Peptide Antigens. <i>Advances in Immunology</i> , 2001, 78, 267-289.	2.2	6
102	The 'chop-and-change' of MHC class I assembly. <i>Nature Immunology</i> , 2006, 7, 7-9.	14.5	5
103	Both rare and common ERAP1 allotypes have distinct functionality defined by polymorphic context and are important in AS association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1575-E1576.	7.1	5
104	Protein Plasticity and Peptide Editing in the MHC I Antigen Processing Pathway. <i>Biochemistry</i> , 2018, 57, 1423-1425.	2.5	5
105	Protective low-avidity anti-tumour CD8+ T cells are selectively attenuated by regulatory T cells. <i>Immunotherapy Advances</i> , 2021, 1, ltaa001.	3.0	5
106	Fluctuations in T cell receptor and pMHC interactions regulate T cell activation. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210589.	3.4	4
107	The multidisciplinary management of non-melanoma conchal bowl skin cancer. <i>Australasian Journal of Dermatology</i> , 2012, 53, 229-232.	0.7	3
108	CasPR and the Unfriendly Host?. <i>CRISPR Journal</i> , 2018, 1, 20-22.	2.9	3

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109	The immunopeptidomes of two transmissible cancers and their host have a common, dominant peptide motif. <i>Immunology</i> , 2021, 163, 169-184.	4.4	2
110	Immunotherapy Advances: One Year On. <i>Immunotherapy Advances</i> , 0, , .	3.0	2
111	Reply to Robinson and Brown: It is the combination of ERAP1 allotypes that identifies individuals with Ankylosing Spondylitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1817-E1817.	7.1	1
112	Antigen processing movers and shakers. <i>Nature Chemical Biology</i> , 2018, 14, 747-748.	8.0	1
113	Introducing Immunotherapy Advances. <i>Immunotherapy Advances</i> , 2021, 1, .	3.0	1
114	The Role of Calnexin and Calreticulin in MHC Class I Assembly. <i>Molecular Biology Intelligence Unit</i> , 2003, , 85-93.	0.2	1
115	Paper alert: Immunology. <i>Current Opinion in Immunology</i> , 2001, 13, 625-634.	5.5	0
116	Immunogenicity of Calreticulin-Bound Murine Leukemia Virus Glycoprotein gp90. <i>Advances in Experimental Medicine and Biology</i> , 2005, 564, 85-94.	1.6	0
117	Galvanized lunacy. <i>Nature</i> , 2012, 490, 346-347.	27.8	0
118	Ligand Selection and Trafficking for MHC I. , 2016, , 233-240.		0