

David Carl Tscharke

List of Publications by Citations

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106
papers

5,139
citations

37
h-index

70
g-index

113
ext. papers

6,011
ext. citations

8.1
avg, IF

5.35
L-index

#	Paper	IF	Citations
106	The developmental pathway for CD103(+)CD8+ tissue-resident memory T cells of skin. <i>Nature Immunology</i> , 2013 , 14, 1294-301	19.1	736
105	A consensus epitope prediction approach identifies the breadth of murine T(CD8+)-cell responses to vaccinia virus. <i>Nature Biotechnology</i> , 2006 , 24, 817-9	44.5	403
104	Identification of poxvirus CD8+ T cell determinants to enable rational design and characterization of smallpox vaccines. <i>Journal of Experimental Medicine</i> , 2005 , 201, 95-104	16.6	265
103	CD8+ T cell cross-priming via transfer of proteasome substrates. <i>Science</i> , 2004 , 304, 1318-21	33.3	245
102	Anti-CD8 impairs clearance of herpes simplex virus from the nervous system: implications for the fate of virally infected neurons. <i>Journal of Experimental Medicine</i> , 1992 , 175, 1337-44	16.6	213
101	Local proliferation maintains a stable pool of tissue-resident memory T cells after antiviral recall responses. <i>Nature Immunology</i> , 2018 , 19, 183-191	19.1	187
100	Kinetic analysis of a complete poxvirus transcriptome reveals an immediate-early class of genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2140-5	11.5	135
99	HLA class I-restricted responses to vaccinia recognize a broad array of proteins mainly involved in virulence and viral gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 13980-5	11.5	127
98	Kinetics of antigen expression and epitope presentation during virus infection. <i>PLoS Pathogens</i> , 2013 , 9, e1003129	7.6	108
97	Regulatory T cells suppress CD8+ T cell responses induced by direct priming and cross-priming and moderate immunodominance disparities. <i>Journal of Immunology</i> , 2005 , 174, 3344-51	5.3	107
96	Dermal infection with vaccinia virus reveals roles for virus proteins not seen using other inoculation routes. <i>Journal of General Virology</i> , 2002 , 83, 1977-1986	4.9	107
95	Poxvirus CD8+ T-cell determinants and cross-reactivity in BALB/c mice. <i>Journal of Virology</i> , 2006 , 80, 6318-23	6.6	102
94	The vaccinia virus N1L protein is an intracellular homodimer that promotes virulence. <i>Journal of General Virology</i> , 2002 , 83, 1965-1976	4.9	101
93	Tissue-resident memory T cells in tissue homeostasis, persistent infection, and cancer surveillance. <i>Immunological Reviews</i> , 2018 , 283, 54-76	11.3	96
92	HLA-A*0201, HLA-A*1101, and HLA-B*0702 transgenic mice recognize numerous poxvirus determinants from a wide variety of viral gene products. <i>Journal of Immunology</i> , 2005 , 175, 5504-15	5.3	89
91	Sizing up the key determinants of the CD8(+) T cell response. <i>Nature Reviews Immunology</i> , 2015 , 15, 705-16	36.5	88
90	Immunodominance of poxviral-specific CTL in a human trial of recombinant-modified vaccinia Ankara. <i>Journal of Immunology</i> , 2005 , 175, 8431-7	5.3	86

89	A model for vaccinia virus pathogenesis and immunity based on intradermal injection of mouse ear pinnae. <i>Journal of General Virology</i> , 1999 , 80 (Pt 10), 2751-2755	4.9	84
88	A study of the vaccinia virus interferon-gamma receptor and its contribution to virus virulence. <i>Journal of General Virology</i> , 2002 , 83, 1953-1964	4.9	74
87	Deletion of gene A41L enhances vaccinia virus immunogenicity and vaccine efficacy. <i>Journal of General Virology</i> , 2006 , 87, 29-38	4.9	73
86	Dual-specific Chimeric Antigen Receptor T Cells and an Indirect Vaccine Eradicate a Variety of Large Solid Tumors in an Immunocompetent, Self-antigen Setting. <i>Clinical Cancer Research</i> , 2017 , 23, 2478-2490	12.9	71
85	Evolutionary history and attenuation of myxoma virus on two continents. <i>PLoS Pathogens</i> , 2012 , 8, e1002250	7.50	71
84	Upregulation of class I major histocompatibility complex gene expression in primary sensory neurons, satellite cells, and Schwann cells of mice in response to acute but not latent herpes simplex virus infection in vivo. <i>Journal of Experimental Medicine</i> , 1994 , 180, 841-50	16.6	70
83	Most viral peptides displayed by class I MHC on infected cells are immunogenic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3112-3117	11.5	64
82	Dissociation between epitope hierarchy and immunoprevalence in CD8 responses to vaccinia virus western reserve. <i>Journal of Immunology</i> , 2008 , 180, 7193-202	5.3	60
81	The vaccinia virus A41L protein is a soluble 30 kDa glycoprotein that affects virus virulence. <i>Journal of General Virology</i> , 2001 , 82, 2095-2105	4.9	59
80	Regulation of protein translation through mRNA structure influences MHC class I loading and T cell recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9319-24	11.5	58
79	The vaccinia virus C12L protein inhibits mouse IL-18 and promotes virus virulence in the murine intranasal model. <i>Journal of General Virology</i> , 2002 , 83, 2833-2844	4.9	56
78	Uncovering the interplay between CD8, CD4 and antibody responses to complex pathogens. <i>Future Microbiology</i> , 2010 , 5, 221-39	2.9	55
77	Lytic gene expression is frequent in HSV-1 latent infection and correlates with the engagement of a cell-intrinsic transcriptional response. <i>PLoS Pathogens</i> , 2014 , 10, e1004237	7.6	53
76	Engineering herpes simplex viruses by infection-transfection methods including recombination site targeting by CRISPR/Cas9 nucleases. <i>Journal of Virological Methods</i> , 2015 , 213, 18-25	2.6	49
75	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	7.6	45
74	The vaccinia virus superoxide dismutase-like protein (A45R) is a virion component that is nonessential for virus replication. <i>Journal of Virology</i> , 2001 , 75, 7018-29	6.6	43
73	The vaccinia virus kelch-like protein C2L affects calcium-independent adhesion to the extracellular matrix and inflammation in a murine intradermal model. <i>Journal of General Virology</i> , 2003 , 84, 2459-2474	4.9	42
72	Influence of translation efficiency of homologous viral proteins on the endogenous presentation of CD8+ T cell epitopes. <i>Journal of Experimental Medicine</i> , 2007 , 204, 525-32	16.6	40

71	Vaccinia virus semaphorin A39R is a 50-55 kDa secreted glycoprotein that affects the outcome of infection in a murine intradermal model. <i>Journal of General Virology</i> , 2001 , 82, 2083-2093	4.9	39
70	Definition of epitopes and antigens recognized by vaccinia specific immune responses: their conservation in variola virus sequences, and use as a model system to study complex pathogens. <i>Vaccine</i> , 2009 , 27 Suppl 6, G21-6	4.1	37
69	Quantification of epitope abundance reveals the effect of direct and cross-presentation on influenza CTL responses. <i>Nature Communications</i> , 2019 , 10, 2846	17.4	34
68	The cellular redox environment alters antigen presentation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27979-91	5.4	33
67	Altered CD8(+) T cell immunodominance after vaccinia virus infection and the naive repertoire in inbred and F(1) mice. <i>Journal of Immunology</i> , 2010 , 184, 45-55	5.3	31
66	Benchmarking predictions of MHC class I restricted T cell epitopes in a comprehensively studied model system. <i>PLoS Computational Biology</i> , 2020 , 16, e1007757	5	29
65	Immunodomination during peripheral vaccinia virus infection. <i>PLoS Pathogens</i> , 2013 , 9, e1003329	7.6	28
64	Engineering recombinant poxviruses using a compact GFP-blasticidin resistance fusion gene for selection. <i>Journal of Virological Methods</i> , 2011 , 171, 295-8	2.6	28
63	Bacillus cereus non-haemolytic enterotoxin activates the NLRP3 inflammasome. <i>Nature Communications</i> , 2020 , 11, 760	17.4	26
62	Vaccinia virus gene B7R encodes an 18-kDa protein that is resident in the endoplasmic reticulum and affects virus virulence. <i>Virology</i> , 2000 , 267, 65-79	3.6	26
61	Analysis of A47, an immunoprevalent protein of vaccinia virus, leads to a reevaluation of the total antiviral CD8+ T cell response. <i>Journal of Virology</i> , 2010 , 84, 10220-9	6.6	25
60	Terminal deoxynucleotidyl transferase establishes and broadens antiviral CD8+ T cell immunodominance hierarchies. <i>Journal of Immunology</i> , 2008 , 181, 649-59	5.3	25
59	Quantifying epitope presentation using mass spectrometry. <i>Molecular Immunology</i> , 2015 , 68, 77-80	4.3	24
58	Genome scale evolution of myxoma virus reveals host-pathogen adaptation and rapid geographic spread. <i>Journal of Virology</i> , 2013 , 87, 12900-15	6.6	23
57	Herpes Simplex Virus Latency Is Noisier the Closer We Look. <i>Journal of Virology</i> , 2020 , 94,	6.6	22
56	Reduced interleukin-4 receptor β expression on CD8+ T cells correlates with higher quality anti-viral immunity. <i>PLoS ONE</i> , 2013 , 8, e55788	3.7	22
55	Lytic Promoters Express Protein during Herpes Simplex Virus Latency. <i>PLoS Pathogens</i> , 2016 , 12, e1005720	7.6	19
54	Simultaneous Quantification of Viral Antigen Expression Kinetics Using Data-Independent (DIA) Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 1361-72	7.6	18

53	Comparative analysis of the complete genome sequence of the California MSW strain of myxoma virus reveals potential host adaptations. <i>Journal of Virology</i> , 2013 , 87, 12080-9	6.6	18
52	Immunology by numbers: quantitation of antigen presentation completes the quantitative milieu of systems immunology!. <i>Current Opinion in Immunology</i> , 2016 , 40, 88-95	7.8	18
51	Reduction of vector gene expression increases foreign antigen-specific CD8+ T-cell priming. <i>Journal of General Virology</i> , 2007 , 88, 2378-2386	4.9	17
50	Linear fidelity in quantification of anti-viral CD8+ T cells. <i>PLoS ONE</i> , 2012 , 7, e39533	3.7	15
49	The ectromelia virus SPI-2 protein causes lethal mousepox by preventing NK cell responses. <i>Journal of Virology</i> , 2011 , 85, 11170-82	6.6	15
48	The Epstein-Barr Virus Glycoprotein gp150 Forms an Immune-Evasive Glycan Shield at the Surface of Infected Cells. <i>PLoS Pathogens</i> , 2016 , 12, e1005550	7.6	15
47	Influenza A Virus Infection Induces Viral and Cellular Defective Ribosomal Products Encoded by Alternative Reading Frames. <i>Journal of Immunology</i> , 2019 , 202, 3370-3380	5.3	14
46	The primary immune response to Vaccinia virus vaccination includes cells with a distinct cytotoxic effector CD4 T-cell phenotype. <i>Vaccine</i> , 2016 , 34, 5251-5261	4.1	14
45	Systems-guided forward genetic screen reveals a critical role of the replication stress response protein ETAA1 in T cell clonal expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5216-E5225	11.5	13
44	Delayed control of herpes simplex virus infection and impaired CD4(+) T-cell migration to the skin in mouse models of DOCK8 deficiency. <i>Immunology and Cell Biology</i> , 2015 , 93, 517-21	5	13
43	An intact signal peptide on dengue virus E protein enhances immunogenicity for CD8(+) T cells and antibody when expressed from modified vaccinia Ankara. <i>Vaccine</i> , 2014 , 32, 2972-9	4.1	12
42	IL-4 and IL-13 mediated down-regulation of CD8 expression levels can dampen anti-viral CD8+ T cell avidity following HIV-1 recombinant pox viral vaccination. <i>Vaccine</i> , 2013 , 31, 4548-55	4.1	11
41	Vaccinia virus CD8+ T-cell dominance hierarchies cannot be altered by prior immunization with individual peptides. <i>Journal of Virology</i> , 2009 , 83, 9008-12	6.6	10
40	Optimization of LMP-specific CTL expansion for potential adoptive immunotherapy in NPC patients. <i>Immunology and Cell Biology</i> , 2009 , 87, 481-8	5	10
39	The vaccinia virus B9R protein is a 6 kDa intracellular protein that is non-essential for virus replication and virulence. <i>Journal of General Virology</i> , 2002 , 83, 873-878	4.9	10
38	Redundancy complicates the definition of essential genes for vaccinia virus. <i>Journal of General Virology</i> , 2015 , 96, 3326-3337	4.9	10
37	Functional paralysis of human natural killer cells by alphaherpesviruses. <i>PLoS Pathogens</i> , 2019 , 15, e1007784	7.84	9
36	Functional analysis of the short isoform of orf virus protein OV20.0. <i>Journal of Virology</i> , 2015 , 89, 4966-706	7.6	9

35	Extent of Systemic Spread Determines CD8+ T Cell Immunodominance for Laboratory Strains, Smallpox Vaccines, and Zoonotic Isolates of Vaccinia Virus. <i>Journal of Immunology</i> , 2015 , 195, 2263-72	5.3	9
34	Strikingly poor CD8+ T-cell immunogenicity of vaccinia virus strain MVA in BALB/c mice. <i>Immunology and Cell Biology</i> , 2014 , 92, 466-9	5	9
33	From mice to humans - murine intelligence for human CD8+ T cell vaccine design. <i>Expert Opinion on Biological Therapy</i> , 2005 , 5, 263-71	5.4	9
32	Systemic toll-like receptor ligation and selective killing of dendritic cell subsets fail to dissect priming pathways for anti-vaccinia virus CD8+ T cells. <i>Journal of Virology</i> , 2013 , 87, 11978-86	6.6	8
31	Mouse strains with point mutations in TAP1 and TAP2. <i>Immunology and Cell Biology</i> , 2010 , 88, 72-8	5	8
30	Rapid poxvirus engineering using CRISPR/Cas9 as a selection tool. <i>Communications Biology</i> , 2020 , 3, 643	6.7	7
29	An intradermal model for vaccinia virus pathogenesis in mice. <i>Methods in Molecular Biology</i> , 2012 , 890, 147-59	1.4	7
28	Anti-CD8 treatment alters interleukin-4 but not interferon-gamma mRNA levels in murine sensory ganglia during herpes simplex virus infection. Brief report. <i>Archives of Virology</i> , 1999 , 144, 2229-38	2.6	7
27	Viperin binds STING and enhances the type-I interferon response following dsDNA detection. <i>Immunology and Cell Biology</i> , 2021 , 99, 373-391	5	7
26	Effective Priming of Herpes Simplex Virus-Specific CD8 T Cells Does Not Require Infected Dendritic Cells. <i>Journal of Virology</i> , 2018 , 92,	6.6	7
25	Modified Vaccinia Virus Ankara Can Induce Optimal CD8 T Cell Responses to Directly Primed Antigens Depending on Vaccine Design. <i>Journal of Virology</i> , 2019 , 93,	6.6	6
24	Truncation of gene F5L partially masks rescue of vaccinia virus strain MVA growth on mammalian cells by restricting plaque size. <i>Journal of General Virology</i> , 2014 , 95, 466-471	4.9	5
23	An ultrastructural investigation of tumors undergoing regression mediated by immunotherapy. <i>Oncotarget</i> , 2017 , 8, 115215-115229	3.3	5
22	Benchmarking predictions of MHC class I restricted T cell epitopes		5
21	Vaccinia virus F5 is required for normal plaque morphology in multiple cell lines but not replication in culture or virulence in mice. <i>Virology</i> , 2014 , 456-457, 145-56	3.6	4
20	Analyzing CD8 T cells in mouse models of poxvirus infection. <i>Methods in Molecular Biology</i> , 2012 , 890, 199-218	1.4	4
19	Notes on transient host range selection for engineering vaccinia virus strain MVA. <i>BioTechniques</i> , 2002 , 33, 186-8	2.5	4
18	Use of mRNA differential display to study the action of lymphocyte subsets in vivo and application to a murine model of herpes simplex virus infection. <i>Immunology Letters</i> , 2000 , 74, 127-32	4.1	4

17	CRISPR/Cas9-Based Genome Editing of HSV. <i>Methods in Molecular Biology</i> , 2020 , 2060, 169-183	1.4	4
16	Overlapping Peptides Elicit Distinct CD8 T Cell Responses following Influenza A Virus Infection. <i>Journal of Immunology</i> , 2020 , 205, 1731-1742	5.3	4
15	Reply to Satheshkumar and Moss: Poxvirus transcriptome analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, E63-E64	11.5	3
14	Use of CD107-based cell sorting ex vivo to enrich subdominant CD8+ T cells in culture. <i>Immunology and Cell Biology</i> , 2007 , 85, 546-50	5	3
13	Golfalpha is expressed in primary sensory neurons outside of the olfactory neuroepithelium. <i>Brain Research</i> , 1999 , 831, 311-4	3.7	2
12	Spreading fun: Comic zombies, Joker viruses and COVID-19 jokes. <i>Journal of Science & Popular Culture</i> , 2021 , 4, 39-57	0.1	2
11	Surprisingly Effective Priming of CD8 T Cells by Heat-Inactivated Vaccinia Virus Virions. <i>Journal of Virology</i> , 2020 , 94,	6.6	2
10	Ptpn2 and KLRG1 regulate the generation and function of tissue-resident memory CD8+ T cells in skin. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	2
9	Ectromelia virus N1L is essential for virulence but not dissemination in a classical model of mousepox. <i>Virus Research</i> , 2017 , 228, 61-65	6.4	1
8	Adaptive immunity to vaccinia virus: revisiting an old friend. <i>Future Virology</i> , 2007 , 2, 163-172	2.4	1
7	Molecular localisation of a G-protein mRNA using differential display and in situ hybridization. <i>Brain Research Protocols</i> , 2000 , 5, 290-7		1
6	Selection of Vaccinia Virus Recombinants Using CRISPR/Cas9.. <i>Bio-protocol</i> , 2021 , 11, e4270	0.9	1
5	Varicella zoster virus impairs expression of the non-classical major histocompatibility complex class I-related gene protein (MR1). <i>Journal of Infectious Diseases</i> , 2021 ,	7	1
4	Influence of translation efficiency of homologous viral proteins on the endogenous presentation of CD8+T cell epitopes. <i>Journal of Cell Biology</i> , 2007 , 176, i11-i11	7.3	1
3	Shielding Surfaces from Viruses and Bacteria with a Multiscale Coating. <i>Advanced Science</i> , 2201415	13.6	1
2	FROM CALIGARI TO JOKER: the clown prince of crime – psychopathic science. <i>Journal of Graphic Novels and Comics</i> , 1-15	0.1	0
1	Increasing antigen presentation on HSV-1-infected cells increases lesion size but does not alter neural infection or latency. <i>Journal of General Virology</i> , 2018 , 99, 682-692	4.9	0