David Carl Tscharke

List of Publications by Year
in descending order

110	6,619	76294	69214
papers	citations	40 h-index	77 g-index

113	113	113	8130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The developmental pathway for CD103+CD8+ tissue-resident memory T cells of skin. Nature Immunology, 2013, 14, 1294-1301.	7.0	1,037
2	A consensus epitope prediction approach identifies the breadth of murine TCD8+-cell responses to vaccinia virus. Nature Biotechnology, 2006, 24, 817-819.	9.4	504
3	Identification of poxvirus CD8+ T cell determinants to enable rational design and characterization of smallpox vaccines. Journal of Experimental Medicine, 2005, 201, 95-104.	4.2	286
4	CD8+ T Cell Cross-Priming via Transfer of Proteasome Substrates. Science, 2004, 304, 1318-1321.	6.0	268
5	Local proliferation maintains a stable pool of tissue-resident memory T cells after antiviral recall responses. Nature Immunology, 2018, 19, 183-191.	7.0	266
6	Anti-CD8 impairs clearance of herpes simplex virus from the nervous system: implications for the fate of virally infected neurons.. Journal of Experimental Medicine, 1992, 175, 1337-1344.	4.2	242
7	Kinetics of Antigen Expression and Epitope Presentation during Virus Infection. PLoS Pathogens, 2013, 9, e1003129.	2.1	173
8	Kinetic analysis of a complete poxvirus transcriptome reveals an immediate-early class of genes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2140-2145.	3.3	161
9	Tissueâ€resident memory T cells in tissue homeostasis, persistent infection, and cancer surveillance. Immunological Reviews, 2018, 283, 54-76.	2.8	142
10	HLA class I-restricted responses to vaccinia recognize a broad array of proteins mainly involved in virulence and viral gene regulation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13980-13985.	3.3	141
11	Dermal infection with vaccinia virus reveals roles for virus proteins not seen using other inoculation routes. Journal of General Virology, 2002, 83, 1977-1986.	1.3	119
12	Regulatory T Cells Suppress CD8+T Cell Responses Induced by Direct Priming and Cross-Priming and Moderate Immunodominance Disparities. Journal of Immunology, 2005, 174, 3344-3351.	0.4	115
13	Sizing up the key determinants of the CD8+ T cell response. Nature Reviews Immunology, 2015, 15, 705-716.	10.6	111
14	HLA-A*0201, HLA-A*1101, and HLA-B*0702 Transgenic Mice Recognize Numerous Poxvirus Determinants from a Wide Variety of Viral Gene Products. Journal of Immunology, 2005, 175, 5504-5515.	0.4	110
15	Poxvirus CD8 + T-Cell Determinants and Cross-Reactivity in BALB/c Mice. Journal of Virology, 2006, 80, 6318-6323.	1.5	109
16	The vaccinia virus N1L protein is an intracellular homodimer that promotes virulence. Journal of General Virology, 2002, 83, 1965-1976.	1.3	108
17	Most viral peptides displayed by class I MHC on infected cells are immunogenic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3112-3117.	3.3	104
18	A model for vaccinia virus pathogenesis and immunity based on intradermal injection of mouse ear pinnae. Journal of General Virology, 1999, 80, 2751-2755.	1.3	100

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19	Dual-specific Chimeric Antigen Receptor T Cells and an Indirect Vaccine Eradicate a Variety of Large Solid Tumors in an Immunocompetent, Self-antigen Setting. Clinical Cancer Research, 2017, 23, 2478-2490.	3.2	95
20	Immunodominance of Poxviral-Specific CTL in a Human Trial of Recombinant-Modified Vaccinia Ankara. Journal of Immunology, 2005, 175, 8431-8437.	0.4	93
21	Evolutionary History and Attenuation of Myxoma Virus on Two Continents. PLoS Pathogens, 2012, 8, e1002950.	2.1	91
22	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.. Journal of Experimental Medicine, 1994, 180, 841-850.	4.2	82
23	A study of the vaccinia virus interferon-Î³ receptor and its contribution to virus virulence. Journal of General Virology, 2002, 83, 1953-1964.	1.3	81
24	Deletion of gene A41L enhances vaccinia virus immunogenicity and vaccine efficacy. Journal of General Virology, 2006, 87, 29-38.	1.3	75
25	Distinct APC Subtypes Drive Spatially Segregated CD4+ and CD8+ T-Cell Effector Activity during Skin Infection with HSV-1. PLoS Pathogens, 2014, 10, e1004303.	2.1	75
26	Lytic Gene Expression Is Frequent in HSV-1 Latent Infection and Correlates with the Engagement of a Cell-Intrinsic Transcriptional Response. PLoS Pathogens, 2014, 10, e1004237.	2.1	70
27	Quantification of epitope abundance reveals the effect of direct and cross-presentation on influenza CTL responses. Nature Communications, 2019, 10, 2846.	5.8	70
28	Engineering herpes simplex viruses by infectionâ€“transfection methods including recombination site targeting by CRISPR/Cas9 nucleases. Journal of Virological Methods, 2015, 213, 18-25.	1.0	69
29	Uncovering the interplay between CD8, CD4 and antibody responses to complex pathogens. Future Microbiology, 2010, 5, 221-239.	1.0	68
30	Dissociation between Epitope Hierarchy and Immunoprevalence in CD8 Responses to Vaccinia Virus Western Reserve. Journal of Immunology, 2008, 180, 7193-7202.	0.4	67
31	The vaccinia virus C12L protein inhibits mouse IL-18 and promotes virus virulence in the murine intranasal model. Journal of General Virology, 2002, 83, 2833-2844.	1.3	67
32	Regulation of protein translation through mRNA structure influences MHC class I loading and T cell recognition. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9319-9324.	3.3	66
33	The vaccinia virus A41L protein is a soluble 30ÂkDa glycoprotein that affects virus virulence. Journal of General Virology, 2001, 82, 2095-2105.	1.3	63
34	Benchmarking predictions of MHC class I restricted T cell epitopes in a comprehensively studied model system. PLoS Computational Biology, 2020, 16, e1007757.	1.5	60
35	Herpes Simplex Virus Latency Is Noisier the Closer We Look. Journal of Virology, 2020, 94, .	1.5	53
36	The Vaccinia Virus Superoxide Dismutase-Like Protein (A45R) Is a Virion Component That Is Nonessential for Virus Replication. Journal of Virology, 2001, 75, 7018-7029.	1.5	52

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37	The vaccinia virus kelch-like protein C2L affects calcium-independent adhesion to the extracellular matrix and inflammation in a murine intradermal model. Journal of General Virology, 2003, 84, 2459-2471.	1.3	52
38	The Cellular Redox Environment Alters Antigen Presentation. Journal of Biological Chemistry, 2014, 289, 27979-27991.	1.6	52
39	Bacillus cereus non-haemolytic enterotoxin activates the NLRP3 inflammasome. Nature Communications, 2020, 11, 760.	5.8	51
40	Influence of translation efficiency of homologous viral proteins on the endogenous presentation of CD8+ T cell epitopes. Journal of Experimental Medicine, 2007, 204, 525-532.	4.2	44
41	Vaccinia virus semaphorin A39R is a 50â€“55ÂkDa secreted glycoprotein that affects the outcome of infection in a murine intradermal model. Journal of General Virology, 2001, 82, 2083-2093.	1.3	43
42	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. Vaccine, 2009, 27, G21-G26.	1.7	43
43	Immunodomination during Peripheral Vaccinia Virus Infection. PLoS Pathogens, 2013, 9, e1003329.	2.1	35
44	Altered CD8+ T Cell Immunodominance after Vaccinia Virus Infection and the Naive Repertoire in Inbred and F1 Mice. Journal of Immunology, 2010, 184, 45-55.	0.4	34
45	Vaccinia Virus Gene B7R Encodes an 18-kDa Protein That is Resident in the Endoplasmic Reticulum and Affects Virus Virulence. Virology, 2000, 267, 65-79.	1.1	33
46	Terminal Deoxynucleotidyl Transferase Establishes and Broadens Antiviral CD8+ T Cell Immunodominance Hierarchies. Journal of Immunology, 2008, 181, 649-659.	0.4	32
47	Genome Scale Evolution of Myxoma Virus Reveals Host-Pathogen Adaptation and Rapid Geographic Spread. Journal of Virology, 2013, 87, 12900-12915.	1.5	32
48	Quantifying epitope presentation using mass spectrometry. Molecular Immunology, 2015, 68, 77-80.	1.0	32
49	Analysis of A47, an Immunoprevalent Protein of Vaccinia Virus, Leads to a Reevaluation of the Total Antiviral CD8⁺T Cell Response. Journal of Virology, 2010, 84, 10220-10229.	1.5	30
50	Immunology by numbers: quantitation of antigen presentation completes the quantitative milieu of systems immunology!. Current Opinion in Immunology, 2016, 40, 88-95.	2.4	30
51	Engineering recombinant poxviruses using a compact GFPâ€“blasticidin resistance fusion gene for selection. Journal of Virological Methods, 2011, 171, 295-298.	1.0	29
52	Reduced Interleukin-4 Receptor Î± Expression on CD8+ T Cells Correlates with Higher Quality Anti-Viral Immunity. PLoS ONE, 2013, 8, e55788.	1.1	28
53	The primary immune response to Vaccinia virus vaccination includes cells with a distinct cytotoxic effector CD4 T-cell phenotype. Vaccine, 2016, 34, 5251-5261.	1.7	28
54	Lytic Promoters Express Protein during Herpes Simplex Virus Latency. PLoS Pathogens, 2016, 12, e1005729.	2.1	27

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55	Viperin binds STING and enhances the typeâ€‰interferon response following dsDNA detection. Immunology and Cell Biology, 2021, 99, 373-391.	1.0	25
56	Simultaneous Quantification of Viral Antigen Expression Kinetics Using Data-Independent (DIA) Mass Spectrometry. Molecular and Cellular Proteomics, 2015, 14, 1361-1372.	2.5	24
57	Linear Fidelity in Quantification of Anti-Viral CD8+ T Cells. PLoS ONE, 2012, 7, e39533.	1.1	23
58	The Epstein-Barr Virus Glycoprotein gp150 Forms an Immune-Evasive Glycan Shield at the Surface of Infected Cells. PLoS Pathogens, 2016, 12, e1005550.	2.1	23
59	Influenza A Virus Infection Induces Viral and Cellular Defective Ribosomal Products Encoded by Alternative Reading Frames. Journal of Immunology, 2019, 202, 3370-3380.	0.4	23
60	The Ectromelia Virus SPI-2 Protein Causes Lethal Mousepox by Preventing NK Cell Responses. Journal of Virology, 2011, 85, 11170-11182.	1.5	21
61	Comparative Analysis of the Complete Genome Sequence of the California MSW Strain of Myxoma Virus Reveals Potential Host Adaptations. Journal of Virology, 2013, 87, 12080-12089.	1.5	21
62	Functional paralysis of human natural killer cells by alphaherpesviruses. PLoS Pathogens, 2019, 15, e1007784.	2.1	20
63	Reduction of vector gene expression increases foreign antigen-specific CD8+ T-cell priming. Journal of General Virology, 2007, 88, 2378-2386.	1.3	18
64	An intact signal peptide on dengue virus E protein enhances immunogenicity for CD8+ T cells and antibody when expressed from modified vaccinia Ankara. Vaccine, 2014, 32, 2972-2979.	1.7	18
65	Systems-guided forward genetic screen reveals a critical role of the replication stress response protein ETAA1 in T cell clonal expansion. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5216-E5225.	3.3	18
66	Delayed control of herpes simplex virus infection and impaired CD4 + Tâ€cell migration to the skin in mouse models of DOCK8 deficiency. Immunology and Cell Biology, 2015, 93, 517-521.	1.0	16
67	Modified Vaccinia Virus Ankara Can Induce Optimal CD8 + T Cell Responses to Directly Primed Antigens Depending on Vaccine Design. Journal of Virology, 2019, 93, .	1.5	16
68	Rapid poxvirus engineering using CRISPR/Cas9 as a selection tool. Communications Biology, 2020, 3, 643.	2.0	16
69	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. Vaccine, 2013, 31, 4548-4555.	1.7	14
70	Functional Analysis of the Short Isoform of Orf Virus Protein OV20.0. Journal of Virology, 2015, 89, 4966-4979.	1.5	14
71	Effective Priming of Herpes Simplex Virus-Specific CD8 + T Cells In Vivo Does Not Require Infected Dendritic Cells. Journal of Virology, 2018, 92, .	1.5	14
72	Redundancy complicates the definition of essential genes for vaccinia virus. Journal of General Virology, 2015, 96, 3326-3337.	1.3	13

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73	Strikingly poor CD8⁺ Tâ€cell immunogenicity of vaccinia virus strain MVA in BALB/c mice. Immunology and Cell Biology, 2014, 92, 466-469.	1.0	12
74	Ptpn2 and KLRG1 regulate the generation and function of tissue-resident memory CD8+ T cells in skin. Journal of Experimental Medicine, 2021, 218, .	4.2	12
75	Optimization of LMPâ€specific CTL expansion for potential adoptive immunotherapy in NPC patients. Immunology and Cell Biology, 2009, 87, 481-488.	1.0	11
76	The vaccinia virus B9R protein is a 6ÂkDa intracellular protein that is non-essential for virus replication and virulence. Journal of General Virology, 2002, 83, 873-878.	1.3	11
77	Varicella Zoster Virus Impairs Expression of the Nonclassical Major Histocompatibility Complex Class Iâ€"Related Gene Protein (MR1). Journal of Infectious Diseases, 2023, 227, 391-401.	1.9	11
78	From mice to humans â€" murine intelligence for human CD8+T cell vaccine design. Expert Opinion on Biological Therapy, 2005, 5, 263-271.	1.4	10
79	Vaccinia Virus CD8 ⁺ T-Cell Dominance Hierarchies Cannot Be Altered by Prior Immunization with Individual Peptides. Journal of Virology, 2009, 83, 9008-9012.	1.5	10
80	Systemic Toll-Like Receptor Ligation and Selective Killing of Dendritic Cell Subsets Fail To Dissect Priming Pathways for Anti-Vaccinia Virus CD8⁺T Cells. Journal of Virology, 2013, 87, 11978-11986.	1.5	10
81	Extent of Systemic Spread Determines CD8+T Cell Immunodominance for Laboratory Strains, Smallpox Vaccines, and Zoonotic Isolates of Vaccinia Virus. Journal of Immunology, 2015, 195, 2263-2272.	0.4	10
82	Mouse strains with point mutations in TAP1 and TAP2. Immunology and Cell Biology, 2010, 88, 72-78.	1.0	9
83	An Intradermal Model for Vaccinia Virus Pathogenesis in Mice. Methods in Molecular Biology, 2012, 890, 147-159.	0.4	9
84	Overlapping Peptides Elicit Distinct CD8+ T Cell Responses following Influenza A Virus Infection. Journal of Immunology, 2020, 205, 1731-1742.	0.4	9
85	CRISPR/Cas9-Based Genome Editing of HSV. Methods in Molecular Biology, 2020, 2060, 169-183.	0.4	9
86	Anti-CD8 treatment alters interleukin-4 but not interferon-Î³ mRNA levels in murine sensory ganglia during herpes simplex virus infection. Archives of Virology, 1999, 144, 2229-2238.	0.9	8
87	Analyzing CD8 T Cells in Mouse Models of Poxvirus Infection. Methods in Molecular Biology, 2012, 890, 199-218.	0.4	7
88	Vaccinia virus F5 is required for normal plaque morphology in multiple cell lines but not replication in culture or virulence in mice. Virology, 2014, 456-457, 145-156.	1.1	7
89	Spreading fun: Comic zombies, Joker viruses and COVID-19 jokes. Journal of Science & Popular Culture, 2021, 4, 39-57.	0.1	7
90	T cells bite the hand that feeds them. Nature Medicine, 2003, 9, 647-648.	15.2	6

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91	An ultrastructural investigation of tumors undergoing regression mediated by immunotherapy. Oncotarget, 2017, 8, 115215-115229.	0.8	6
92	Inside the professionals. Nature, 2002, 418, 923-924.	13.7	5
93	Truncation of gene F5L partially masks rescue of vaccinia virus strain MVA growth on mammalian cells by restricting plaque size. Journal of General Virology, 2014, 95, 466-471.	1.3	5
94	Surprisingly Effective Priming of CD8 + T Cells by Heat-Inactivated Vaccinia Virus Virions. Journal of Virology, 2020, 94, .	1.5	5
95	FROM CALIGARI TO JOKER: the clown prince of crimeâ€™s psychopathic science. Journal of Graphic Novels and Comics, 2022, 13, 685-699.	0.1	5
96	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. Immunology Letters, 2000, 74, 127-132.	1.1	4
97	Notes on Transient Host Range Selection for Engineering Vaccinia Virus Strain MVA. BioTechniques, 2002, 33, 186-188.	0.8	4
98	Reply to Satheshkumar and Moss: Poxvirus transcriptome analysis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, E63-E64.	3.3	4
99	Viperin has species-specific roles in response to herpes simplex virus infection. Journal of General Virology, 2021, 102, .	1.3	4
100	Shielding Surfaces from Viruses and Bacteria with a Multiscale Coating. Advanced Science, 2022, 9, .	5.6	4
101	Use of CD107â€based cell sorting ex vivo to enrich subdominant CD8 + T cells in culture. Immunology and Cell Biology, 2007, 85, 546-550.	1.0	3
102	Selection of Vaccinia Virus Recombinants Using CRISPR/Cas9. Bio-protocol, 2021, 11, e4270.	0.2	3
103	Golfî± is expressed in primary sensory neurons outside of the olfactory neuroepithelium. Brain Research, 1999, 831, 311-314.	1.1	2
104	Direct Priming of CD8⁺T Cells Persists in the Face of Cowpox Virus Inhibitors of Antigen Presentation. Journal of Virology, 2021, 95, .	1.5	2
105	Molecular localisation of a G-protein mRNA using differential display and in situ hybridization. Brain Research Protocols, 2000, 5, 290-297.	1.7	1
106	Adaptive immunity to vaccinia virus: revisiting an old friend. Future Virology, 2007, 2, 163-172.	0.9	1
107	Ectromelia virus N1L is essential for virulence but not dissemination in a classical model of mousepox. Virus Research, 2017, 228, 61-65.	1.1	1
108	Influence of translation efficiency of homologous viral proteins on the endogenous presentation of CD8+T cell epitopes. Journal of Cell Biology, 2007, 176, i11-i11.	2.3	1

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109	Increasing antigen presentation on HSV-1-infected cells increases lesion size but does not alter neural infection or latency. Journal of General Virology, 2018, 99, 682-692.	1.3	1
110	Kinetic Analysis of a Complete Poxvirus Transcriptome Reveals a Novel Class of Genes. FASEB Journal, 2008, 22, .	0.2	0