

Heather D Hickman

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

5,302
citations

109321

35
h-index

91884

69
g-index

102
all docs

102
docs citations

102
times ranked

8948
citing authors

#	ARTICLE	IF	CITATIONS
1	Wild Mouse Gut Microbiota Promotes Host Fitness and Improves Disease Resistance. <i>Cell</i> , 2017, 171, 1015-1028.e13.	28.9	603
2	Hemagglutinin Receptor Binding Avidity Drives Influenza A Virus Antigenic Drift. <i>Science</i> , 2009, 326, 734-736.	12.6	429
3	Innate immune and chemically triggered oxidative stress modifies translational fidelity. <i>Nature</i> , 2009, 462, 522-526.	27.8	290
4	Nuclear translation visualized by ribosome-bound nascent chain puromycylation. <i>Journal of Cell Biology</i> , 2012, 197, 45-57.	5.2	255
5	Direct priming of antiviral CD8+ T cells in the peripheral interfollicular region of lymph nodes. <i>Nature Immunology</i> , 2008, 9, 155-165.	14.5	240
6	Intravital mucosal imaging of CD8+ resident memory T cells shows tissue-autonomous recall responses that amplify secondary memory. <i>Nature Immunology</i> , 2018, 19, 173-182.	14.5	220
7	Defining B cell immunodominance to viruses. <i>Nature Immunology</i> , 2017, 18, 456-463.	14.5	218
8	Oxygen Sensing by T Cells Establishes an Immunologically Tolerant Metastatic Niche. <i>Cell</i> , 2016, 166, 1117-1131.e14.	28.9	203
9	CXCR3 Chemokine Receptor Enables Local CD8+ T Cell Migration for the Destruction of Virus-Infected Cells. <i>Immunity</i> , 2015, 42, 524-537.	14.3	184
10	The Bone Marrow Protects and Optimizes Immunological Memory during Dietary Restriction. <i>Cell</i> , 2019, 178, 1088-1101.e15.	28.9	160
11	Intravenous nanoparticle vaccination generates stem-like TCF1+ neoantigen-specific CD8+ T cells. <i>Nature Immunology</i> , 2021, 22, 41-52.	14.5	110
12	Cutting Edge: Sympathetic Nervous System Increases Proinflammatory Cytokines and Exacerbates Influenza A Virus Pathogenesis. <i>Journal of Immunology</i> , 2010, 184, 540-544.	0.8	106
13	Toward a Definition of Self: Proteomic Evaluation of the Class I Peptide Repertoire. <i>Journal of Immunology</i> , 2004, 172, 2944-2952.	0.8	104
14	Cell-to-cell trafficking of cucumber mosaic virus movement protein:green fluorescent protein fusion produced by biolistic gene bombardment in tobacco. <i>Plant Journal</i> , 1997, 12, 1223-1230.	5.7	94
15	Sympathetic nervous system control of anti-influenza CD8 ⁺ T cell responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 5300-5305.	7.1	85
16	Generation and Protective Ability of Influenza Virus-Specific Antibody-Dependent Cellular Cytotoxicity in Humans Elicited by Vaccination, Natural Infection, and Experimental Challenge. <i>Journal of Infectious Diseases</i> , 2016, 214, 945-952.	4.0	84
17	Aberrant type 1 immunity drives susceptibility to mucosal fungal infections. <i>Science</i> , 2021, 371, .	12.6	84
18	Unexpected Role for the Immunoproteasome Subunit LMP2 in Antiviral Humoral and Innate Immune Responses. <i>Journal of Immunology</i> , 2010, 184, 4115-4122.	0.8	82

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19	Quantitating T Cell Cross-Reactivity for Unrelated Peptide Antigens. <i>Journal of Immunology</i> , 2009, 183, 4337-4345.	0.8	81
20	Chemokines control naive CD8+ T cell selection of optimal lymph node antigen presenting cells. <i>Journal of Experimental Medicine</i> , 2011, 208, 2511-2524.	8.5	80
21	Escape in One of Two Cytotoxic T-Lymphocyte Epitopes Bound by a High-Frequency Major Histocompatibility Complex Class I Molecule, Mamu-A*02: a Paradigm for Virus Evolution and Persistence?. <i>Journal of Virology</i> , 2002, 76, 11623-11636.	3.4	77
22	Anatomically Restricted Synergistic Antiviral Activities of Innate and Adaptive Immune Cells in the Skin. <i>Cell Host and Microbe</i> , 2013, 13, 155-168.	11.0	76
23	Cutting Edge: Class I Presentation of Host Peptides Following HIV Infection. <i>Journal of Immunology</i> , 2003, 171, 22-26.	0.8	75
24	Lymph node conduits transport virions for rapid T cell activation. <i>Nature Immunology</i> , 2019, 20, 602-612.	14.5	74
25	Vaccinia virus hijacks EGFR signalling to enhance virus spread through rapid and directed infected cell motility. <i>Nature Microbiology</i> , 2019, 4, 216-225.	13.3	73
26	Endogenous viral antigen processing generates peptide-specific MHC class I cell-surface clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15407-15412.	7.1	65
27	Population of the HLA Ligand Database. <i>Tissue Antigens</i> , 2003, 61, 12-19.	1.0	64
28	Neuraminidase inhibition contributes to influenza A virus neutralization by anti-hemagglutinin stem antibodies. <i>Journal of Experimental Medicine</i> , 2019, 216, 304-316.	8.5	63
29	Outflanking immunodominance to target subdominant broadly neutralizing epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13474-13479.	7.1	57
30	Inhibitors of the Histone Methyltransferases EZH2/1 Induce a Potent Antiviral State and Suppress Infection by Diverse Viral Pathogens. <i>MBio</i> , 2017, 8, .	4.1	56
31	Enteric helminth coinfection enhances host susceptibility to neurotropic flaviviruses via a tuft cell-IL-4 receptor signaling axis. <i>Cell</i> , 2021, 184, 1214-1231.e16.	28.9	48
32	Caught in the Act: Intravital Multiphoton Microscopy of Host-Pathogen Interactions. <i>Cell Host and Microbe</i> , 2009, 5, 13-21.	11.0	46
33	Persistent Oxidative Stress and Inflammasome Activation in CD14 ^{high} CD16 ^{âˆ—} Monocytes From COVID-19 Patients. <i>Frontiers in Immunology</i> , 2021, 12, 799558.	4.8	44
34	A Charged Amino Acid Residue in the Transmembrane/Cytoplasmic Region of Tapasin Influences MHC Class I Assembly and Maturation. <i>Journal of Immunology</i> , 2005, 174, 962-969.	0.8	41
35	HLA class I polymorphism has a dual impact on ligand binding and chaperone interaction. <i>Human Immunology</i> , 2002, 63, 248-255.	2.4	39
36	The High Frequency Indian Rhesus Macaque MHC Class I Molecule, Mamu-B*01, Does Not Appear to Be Involved in CD8+T Lymphocyte Responses to SIVmac239. <i>Journal of Immunology</i> , 2005, 175, 5986-5997.	0.8	35

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37	Gorillas with Spondyloarthropathies Express an MHC Class I Molecule with Only Limited Sequence Similarity to HLA-B27 that Binds Peptides with Arginine at P2. <i>Journal of Immunology</i> , 2001, 166, 3334-3344.	0.8	32
38	Terminal Deoxynucleotidyl Transferase Establishes and Broadens Antiviral CD8+ T Cell Immunodominance Hierarchies. <i>Journal of Immunology</i> , 2008, 181, 649-659.	0.8	32
39	Intranasal Live Influenza Vaccine Priming Elicits Localized B Cell Responses in Mediastinal Lymph Nodes. <i>Journal of Virology</i> , 2018, 92, .	3.4	30
40	Group 1 innate lymphoid-cell-derived interferon- β maintains anti-viral vigilance in the mucosal epithelium. <i>Immunity</i> , 2021, 54, 276-290.e5.	14.8	30
41	Locally Produced IL-10 Limits Cutaneous Vaccinia Virus Spread. <i>PLoS Pathogens</i> , 2016, 12, e1005493.	4.7	30
42	Disparate binding of chaperone proteins by HLA-A subtypes. <i>Immunogenetics</i> , 2002, 53, 830-834.	2.4	29
43	Rhesus Macaque MHC Class I Molecules Present HLA-B-Like Peptides. <i>Journal of Immunology</i> , 2005, 175, 367-375.	0.8	29
44	Development and implementation of a direct detection, quantitation and validation system for class I MHC self-peptide epitopes. <i>Journal of Immunological Methods</i> , 2007, 318, 47-58.	1.4	27
45	Defining Viral Defective Ribosomal Products: Standard and Alternative Translation Initiation Events Generate a Common Peptide from Influenza A Virus M2 and M1 mRNAs. <i>Journal of Immunology</i> , 2016, 196, 3608-3617.	0.8	25
46	Chikungunya virus impairs draining lymph node function by inhibiting HEV-mediated lymphocyte recruitment. <i>JCI Insight</i> , 2018, 3, .	5.0	24
47	C-terminal epitope tagging facilitates comparative ligand mapping from MHC class I positive cells. <i>Human Immunology</i> , 2000, 61, 1339-1346.	2.4	23
48	Murine Norovirus Infection Has No Significant Effect on Adaptive Immunity to Vaccinia Virus or Influenza A Virus. <i>Journal of Virology</i> , 2009, 83, 7357-7360.	3.4	22
49	Influenza A Virus Negative Strand RNA Is Translated for CD8+ T Cell Immunosurveillance. <i>Journal of Immunology</i> , 2018, 201, 1222-1228.	0.8	22
50	MyD88-dependent influx of monocytes and neutrophils impairs lymph node B cell responses to chikungunya virus infection via <i>Irf5</i> , <i>Nos2</i> and <i>Nox2</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008292.	4.7	22
51	Although Divergent in Residues of the Peptide Binding Site, Conserved Chimpanzee Patr-AL and Polymorphic Human HLA-A*02 Have Overlapping Peptide-Binding Repertoires. <i>Journal of Immunology</i> , 2011, 186, 1575-1588.	0.8	21
52	Protein Translation Activity: A New Measure of Host Immune Cell Activation. <i>Journal of Immunology</i> , 2016, 197, 1498-1506.	0.8	21
53	A sand fly salivary protein acts as a neutrophil chemoattractant. <i>Nature Communications</i> , 2021, 12, 3213.	12.8	19
54	Ubiquitous Autofragmentation of Fluorescent Proteins Creates Abundant Defective Ribosomal Products (DRiPs) for Immunosurveillance. <i>Journal of Biological Chemistry</i> , 2015, 290, 16431-16439.	3.4	18

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55	MARCO ⁺ lymphatic endothelial cells sequester arthritogenic alphaviruses to limit viremia and viral dissemination. <i>EMBO Journal</i> , 2021, 40, e108966.	7.8	18
56	Mild SARS-CoV-2 infection in rhesus macaques is associated with viral control prior to antigen-specific T cell responses in tissues. <i>Science Immunology</i> , 2022, 7, eabo0535.	11.9	17
57	Mining the plasma immunopeptidome for cancer peptides as biomarkers and beyond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18747-18748.	7.1	13
58	Alpha-2 domain polymorphism and HLA class I peptide loading. <i>Tissue Antigens</i> , 1999, 54, 450-460.	1.0	12
59	Zika in the Brain: New Models Shed Light on Viral Infection. <i>Trends in Molecular Medicine</i> , 2016, 22, 639-641.	6.7	12
60	New lane in the information highway: alternative reading frame peptides elicit T cells with potent antiretrovirus activity. <i>Journal of Experimental Medicine</i> , 2007, 204, 2501-2504.	8.5	11
61	In vivo imaging of the T cell response to infection. <i>Current Opinion in Immunology</i> , 2010, 22, 293-298.	5.5	11
62	Youth has its privileges: maturation inhibits DC cross-priming. <i>Nature Immunology</i> , 2006, 7, 125-126.	14.5	10
63	New insights into antiviral immunity gained through intravital imaging. <i>Current Opinion in Virology</i> , 2017, 22, 59-63.	5.4	9
64	Poxviruses and paramyxoviruses use a conserved mechanism of STAT1 antagonism to inhibit interferon signaling. <i>Cell Host and Microbe</i> , 2022, 30, 357-372.e11.	11.0	9
65	From optical bench to cageside: intravital microscopy on the long road to rational vaccine design. <i>Immunological Reviews</i> , 2011, 239, 209-220.	6.0	8
66	Biogenesis of Influenza A Virus Hemagglutinin Cross-Protective Stem Epitopes. <i>PLoS Pathogens</i> , 2014, 10, e1004204.	4.7	8
67	T Cells Take on Zika Virus. <i>Immunity</i> , 2017, 46, 13-14.	14.3	8
68	Intravital Imaging of Vaccinia Virus-Infected Mice. <i>Methods in Molecular Biology</i> , 2019, 2023, 301-311.	0.9	8
69	Response to Comments on "Aberrant type 1 immunity drives susceptibility to mucosal fungal infections" <i>Science</i> , 2021, 373, eabi8835.	12.6	5
70	Butyrate administration is not sufficient to improve immune reconstitution in antiretroviral-treated SIV-infected macaques. <i>Scientific Reports</i> , 2022, 12, 7491.	3.3	5
71	Going Pro to enhance T cell immunogenicity: Easy as 1-2-3. <i>European Journal of Immunology</i> , 2013, 43, 2814-2817.	2.9	4
72	Tracing Antiviral CD8+ T Cell Responses Using In Vivo Imaging. <i>Journal of Immunology</i> , 2019, 203, 775-781.	0.8	4

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73	Simian Immunodeficiency Virus Infection of Rhesus Macaques Results in Delayed Zika Virus Clearance. MBio, 2019, 10, .	4.1	4
74	Slowing blood flow to fight viral infection. Science, 2019, 363, 585-586.	12.6	3
75	An Agonistic Anti-CD137 Antibody Disrupts Lymphoid Follicle Structure and T-Cell-Dependent Antibody Responses. Cell Reports Medicine, 2020, 1, 100035.	6.5	3
76	Antiviral Activities of Group I Innate Lymphoid Cells. Journal of Molecular Biology, 2022, 434, 167266.	4.2	3
77	Protocol for analyzing and visualizing antiviral immune responses after acute infection of the murine oral mucosa. STAR Protocols, 2021, 2, 100790.	1.2	3
78	Back to the fold: T cell recognition of HFE, a MHC class Ib molecule that regulates iron metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12649-12650.	7.1	2
79	Imaging CD8+T cells during diverse viral infections. Intravital, 2015, 4, e1055425.	2.0	2
80	Non-conservative substitutions distinguish previously uncharacterized HLA-A molecules. Tissue Antigens, 2001, 57, 95-102.	1.0	1
81	Illuminating inflammasome activity in vivo. Nature Medicine, 2016, 22, 22-23.	30.7	1
82	T cells iron out tumors. Science Translational Medicine, 2019, 11, .	12.4	1
83	Evolution of MPCV Service Module Propulsion and GN&C Interface Requirements between Constellation and European Service Module. , 2014, , .		0
84	There goes the macrophage neighborhood. Science, 2015, 347, 609-610.	12.6	0
85	Editorial overview: Viral immunology: Generating immunity to diverse viral pathogens. Current Opinion in Virology, 2018, 28, viii-x.	5.4	0
86	Growth and Purification of Vaccinia Virus Stocks for MPM Imaging. Methods in Molecular Biology, 2019, 2023, 287-299.	0.9	0
87	Teaching an old antibody response new tricks. Science Translational Medicine, 2019, 11, .	12.4	0
88	Innate lymphoid cells pack on the pounds. Science Translational Medicine, 2019, 11, .	12.4	0
89	Viruses teach T cells to tackle tumors. Science Translational Medicine, 2019, 11, .	12.4	0
90	Antibodies go with the lymphatic flow. Science Translational Medicine, 2019, 11, .	12.4	0

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91	Bystanders get in the game. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	0
92	Imaging viral infection in vivo to gain unique perspectives on cellular antiviral immunity*. <i>Immunological Reviews</i> , 2022, 306, 200-217.	6.0	0
93	Title is missing!. , 2020, 16, e1008292.		0
94	Title is missing!. , 2020, 16, e1008292.		0
95	Title is missing!. , 2020, 16, e1008292.		0
96	Title is missing!. , 2020, 16, e1008292.		0