Jonathan W Yewdell

List of Publications by Year
in descending order

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99 papers	14,455 citations	34105 52 h-index	32842 100 g-index
110 all docs	110 docs citations	110 times ranked	14654 citing authors

#	Article	IF	Citations
1	Rapid degradation of a large fraction of newly synthesized proteins by proteasomes. Nature, 2000, 404, 770-774.	27.8	1,328
2	The antigenic structure of the influenza virus A/PR/8/34 hemagglutinin (H1 subtype). Cell, 1982, 31, 417-427.	28.9	1,030
3	A novel influenza A virus mitochondrial protein that induces cell death. Nature Medicine, 2001, 7, 1306-1312.	30.7	901
4	Recognition of haemagglutinins on virus-infected cells by NKp46 activates lysis by human NK cells. Nature, 2001, 409, 1055-1060.	27.8	844
5	Localization, Quantitation, and In Situ Detection of Specific Peptideâ€“MHC Class I Complexes Using a Monoclonal Antibody. Immunity, 1997, 6, 715-726.	14.3	641
6	Antigenic structure of influenza virus haemagglutinin defined by hybridoma antibodies. Nature, 1981, 290, 713-717.	27.8	466
7	Quantitating Protein Synthesis, Degradation, and Endogenous Antigen Processing. Immunity, 2003, 18, 343-354.	14.3	461
8	Hemagglutinin Receptor Binding Avidity Drives Influenza A Virus Antigenic Drift. Science, 2009, 326, 734-736.	12.6	429
9	Making sense of mass destruction: quantitating MHC class I antigen presentation. Nature Reviews Immunology, 2003, 3, 952-961.	22.7	377
10	Pandemic H1N1 influenza vaccine induces a recall response in humans that favors broadly cross-reactive memory B cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9047-9052.	7.1	371
11	Confronting Complexity: Real-World Immunodominance in Antiviral CD8+ T Cell Responses. Immunity, 2006, 25, 533-543.	14.3	333
12	Visualizing priming of virus-specific CD8+ T cells by infected dendritic cells in vivo. Nature Immunology, 2002, 3, 265-271.	14.5	324
13	Immune recognition of a human renal cancer antigen through post-translational protein splicing. Nature, 2004, 427, 252-256.	27.8	314
14	Dissecting the Multifactorial Causes of Immunodominance in Class Iâ€“Restricted T Cell Responses to Viruses. Immunity, 2000, 12, 83-93.	14.3	309
15	Identification of poxvirus CD8+ T cell determinants to enable rational design and characterization of smallpox vaccines. Journal of Experimental Medicine, 2005, 201, 95-104.	8.5	286
16	CD8+ T Cell Cross-Priming via Transfer of Proteasome Substrates. Science, 2004, 304, 1318-1321.	12.6	268
17	Nuclear translation visualized by ribosome-bound nascent chain puromycylation. Journal of Cell Biology, 2012, 197, 45-57.	5.2	255
18	Direct priming of antiviral CD8+ T cells in the peripheral interfollicular region of lymph nodes. Nature Immunology, 2008, 9, 155-165.	14.5	240

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19	Viral interference with antigen presentation. Nature Immunology, 2002, 3, 1019-1025.	14.5	226
20	Flow Cytometry Reveals that H5N1 Vaccination Elicits Cross-Reactive Stem-Directed Antibodies from Multiple Ig Heavy-Chain Lineages. Journal of Virology, 2014, 88, 4047-4057.	3.4	220
21	Defining B cell immunodominance to viruses. Nature Immunology, 2017, 18, 456-463.	14.5	218
22	Intracellular Localization of Proteasomal Degradation of a Viral Antigen. Journal of Cell Biology, 1999, 146, 113-124.	5.2	205
23	The DRiP hypothesis decennial: support, controversy, refinement and extension. Trends in Immunology, 2006, 27, 368-373.	6.8	192
24	CXCR3 Chemokine Receptor Enables Local CD8+ T Cell Migration for the Destruction of Virus-Infected Cells. Immunity, 2015, 42, 524-537.	14.3	184
25	A few good peptides: MHC class I-based cancer immunosurveillance and immunoevasion. Nature Reviews Immunology, 2021, 21, 116-128.	22.7	139
26	Translating DRiPs: MHC class I immunosurveillance of pathogens and tumors. Journal of Leukocyte Biology, 2014, 95, 551-562.	3.3	127
27	Fitness costs limit influenza A virus hemagglutinin glycosylation as an immune evasion strategy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1417-22.	7.1	122
28	Influenza Hemagglutinin and Neuraminidase: Yinâ€"Yang Proteins Coevolving to Thwart Immunity. Viruses, 2019, 11, 346.	3.3	122
29	Most non-canonical proteins uniquely populate the proteome or immunopeptidome. Cell Reports, 2021, 34, 108815.	6.4	120
30	Broadly neutralizing antibodies target the coronavirus fusion peptide. Science, 2022, 377, 728-735.	12.6	111
31	Poxvirus CD8 + T-Cell Determinants and Cross-Reactivity in BALB/c Mice. Journal of Virology, 2006, 80, 6318-6323.	3.4	109
32	Decoding mRNA translatability and stability from the 5â€² UTR. Nature Structural and Molecular Biology, 2020, 27, 814-821.	8.2	106
33	Modification of Cysteine Residues In Vitro and In Vivo Affects the Immunogenicity and Antigenicity of Major Histocompatibility Complex Class Iâ€"restricted Viral Determinants. Journal of Experimental Medicine, 1999, 189, 1757-1764.	8.5	105
34	Structure and accessibility of HA trimers on intact 2009 H1N1 pandemic influenza virus to stem region-specific neutralizing antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4592-4597.	7.1	99
35	Defining Influenza A Virus Hemagglutinin Antigenic Drift by Sequential Monoclonal Antibody Selection. Cell Host and Microbe, 2013, 13, 314-323.	11.0	97
36	Antibody Immunodominance: The Key to Understanding Influenza Virus Antigenic Drift. Viral Immunology, 2018, 31, 142-149.	1.3	90

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37	Ribosomal Proteins Regulate MHC Class I Peptide Generation for Immunosurveillance. Molecular Cell, 2019, 73, 1162-1173.e5.	9.7	81
38	Chemokines control naive CD8+ T cell selection of optimal lymph node antigen presenting cells. Journal of Experimental Medicine, 2011, 208, 2511-2524.	8.5	80
39	Subdominance and poor intrinsic immunogenicity limit humoral immunity targeting influenza HA stem. Journal of Clinical Investigation, 2019, 129, 850-862.	8.2	78
40	Anatomically Restricted Synergistic Antiviral Activities of Innate and Adaptive Immune Cells in the Skin. Cell Host and Microbe, 2013, 13, 155-168.	11.0	76
41	Lymph node conduits transport virions for rapid T cell activation. Nature Immunology, 2019, 20, 602-612.	14.5	74
42	Human Influenza A Virus Hemagglutinin Glycan Evolution Follows a Temporal Pattern to a Glycan Limit. MBio, 2019, 10, .	4.1	74
43	Antigenic drift: Understanding COVID-19. Immunity, 2021, 54, 2681-2687.	14.3	74
44	The seven dirty little secrets of major histocompatibility complex class I antigen processing. Immunological Reviews, 2005, 207, 8-18.	6.0	73
45	Genome-wide Screens Identify Lineage- and Tumor-Specific Genes Modulating MHC-I- and MHC-II-Restricted Immunosurveillance of Human Lymphomas. Immunity, 2021, 54, 116-131.e10.	14.3	72
46	Reversal in the Immunodominance Hierarchy in Secondary CD8+ T Cell Responses to Influenza A Virus: Roles for Cross-Presentation and Lysis-Independent Immunodomination. Journal of Immunology, 2004, 173, 5021-5027.	0.8	70
47	Plumbing the sources of endogenous MHC class I peptide ligands. Current Opinion in Immunology, 2007, 19, 79-86.	5.5	70
48	Compartmentalized MHC class I antigen processing enhances immunosurveillance by circumventing the law of mass action. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6964-6969.	7.1	68
49	Single-cell BCR and transcriptome analysis after influenza infection reveals spatiotemporal dynamics of antigen-specific B cells. Cell Reports, 2021, 35, 109286.	6.4	67
50	Influenza A Virus Hemagglutinin Antibody Escape Promotes Neuraminidase Antigenic Variation and Drug Resistance. PLoS ONE, 2011, 6, e15190.	2.5	67
51	Endogenous viral antigen processing generates peptide-specific MHC class I cell-surface clusters. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15407-15412.	7.1	65
52	Influenza A virus nucleoprotein selectively decreases neuraminidase gene-segment packaging while enhancing viral fitness and transmissibility. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16854-16859.	7.1	64
53	Neuraminidase inhibition contributes to influenza A virus neutralization by anti-hemagglutinin stem antibodies. Journal of Experimental Medicine, 2019, 216, 304-316.	8.5	63
54	Mixed Proteasomes Function To Increase Viral Peptide Diversity and Broaden Antiviral CD8+ T Cell Responses. Journal of Immunology, 2013, 191, 52-59.	0.8	59

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55	Influenza A virus hemagglutinin glycosylation compensates for antibody escape fitness costs. PLoS Pathogens, 2018, 14, e1006796.	4.7	59
56	Original Antigenic Sin: How Original? How Sinful?. Cold Spring Harbor Perspectives in Medicine, 2021, 11, a038786.	6.2	58
57	Lamprey VLRB response to influenza virus supports universal rules of immunogenicity and antigenicity. ELife, 2015, 4, .	6.0	58
58	Distinct Pathways Generate Peptides from Defective Ribosomal Products for CD8+ T Cell Immunosurveillance. Journal of Immunology, 2011, 186, 2065-2072.	0.8	55
59	Immunoproteasomes: Regulating the regulator. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9089-9090.	7.1	54
60	Out with the old, in with the new? Comparing methods for measuring protein degradation. Cell Biology International, 2011, 35, 457-462.	3.0	53
61	Mice Deficient in Perforin, CD4 + T Cells, or CD28-Mediated Signaling Maintain the Typical Immunodominance Hierarchies of CD8 + T-Cell Responses to Influenza Virus. Journal of Virology, 2002, 76, 10332-10337.	3.4	50
62	Vaccine induction of antibodies and tissue-resident CD8+ T cells enhances protection against mucosal SHIV-infection in young macaques. JCI Insight, 2019, 4, .	5.0	50
63	A single intranasal dose of a live-attenuated parainfluenza virus-vectored SARS-CoV-2 vaccine is protective in hamsters. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	43
64	Viral Alteration of Cellular Translational Machinery Increases Defective Ribosomal Products. Journal of Virology, 2007, 81, 7220-7229.	3.4	41
65	Defective Ribosomal Products Are the Major Source of Antigenic Peptides Endogenously Generated from Influenza A Virus Neuraminidase. Journal of Immunology, 2010, 184, 1419-1424.	0.8	40
66	IMMUNOLOGY: Hide and Seek in the Peptidome. Science, 2003, 301, 1334-1335.	12.6	39
67	Influenza A virus hemagglutinin specific antibodies interfere with virion neuraminidase activity via two distinct mechanisms. Virology, 2017, 500, 178-183.	2.4	39
68	Enhancing responses to cancer immunotherapy. Science, 2018, 359, 516-517.	12.6	39
69	Peptide Channeling: The Key to MHC Class I Immunosurveillance?. Trends in Cell Biology, 2019, 29, 929-939.	7.9	39
70	Myc controls a distinct transcriptional program in fetal thymic epithelial cells that determines thymus growth. Nature Communications, 2019, 10, 5498.	12.8	39
71	Comparative immunopeptidomics of humans and their pathogens. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13268-13272.	7.1	38
72	RNA Polymerase II Inhibitors Dissociate Antigenic Peptide Generation from Normal Viral Protein Synthesis: A Role for Nuclear Translation in Defective Ribosomal Product Synthesis?. Journal of Immunology, 2010, 185, 6728-6733.	0.8	38

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73	Varied Role of Ubiquitylation in Generating MHC Class I Peptide Ligands. Journal of Immunology, 2017, 198, 3835-3845.	0.8	38
74	Individuals cannot rely on COVID-19 herd immunity: Durable immunity to viral disease is limited to viruses with obligate viremic spread. PLoS Pathogens, 2021, 17, e1009509.	4.7	36
75	A Simple Flow-Cytometric Method Measuring B Cell Surface Immunoglobulin Avidity Enables Characterization of Affinity Maturation to Influenza A Virus. MBio, 2015, 6, e01156.	4.1	34
76	Severe Acute Respiratory Syndrome Coronavirus 2 Seroassay Performance and Optimization in a Population With High Background Reactivity in Mali. Journal of Infectious Diseases, 2021, 224, 2001-2009.	4.0	34
77	MHC class I antigen processing distinguishes endogenous antigens based on their translation from cellular vs. viral mRNA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7025-7030.	7.1	33
78	Hybrid Gene Origination Creates Human-Virus Chimeric Proteins during Infection. Cell, 2020, 181, 1502-1517.e23.	28.9	33
79	Intranasal Live Influenza Vaccine Priming Elicits Localized B Cell Responses in Mediastinal Lymph Nodes. Journal of Virology, 2018, 92, .	3.4	30
80	DRiPs get molecular. Current Opinion in Immunology, 2020, 64, 130-136.	5.5	27
81	Hybrid antibody-mediated lysis of virus-infected cells. European Journal of Immunology, 1987, 17, 571-574.	2.9	25
82	Defining Viral Defective Ribosomal Products: Standard and Alternative Translation Initiation Events Generate a Common Peptide from Influenza A Virus M2 and M1 mRNAs. Journal of Immunology, 2016, 196, 3608-3617.	0.8	25
83	Influenza A Virus Infection Induces Viral and Cellular Defective Ribosomal Products Encoded by Alternative Reading Frames. Journal of Immunology, 2019, 202, 3370-3380.	0.8	23
84	Immunoribosomes: Whereâ€™s thereâ€™s fire, thereâ€™s fire. Molecular Immunology, 2019, 113, 38-42.	2.2	23
85	MHC Class I Immunopeptidome: Past, Present, and Future. Molecular and Cellular Proteomics, 2022, 21, 100230.	3.8	23
86	Influenza A Virus Negative Strand RNA Is Translated for CD8+ T Cell Immunosurveillance. Journal of Immunology, 2018, 201, 1222-1228.	0.8	22
87	Protein Translation Activity: A New Measure of Host Immune Cell Activation. Journal of Immunology, 2016, 197, 1498-1506.	0.8	21
88	A SIINFEKL-Based System to Measure MHC Class I Antigen Presentation Efficiency and Kinetics. Methods in Molecular Biology, 2019, 1988, 109-122.	0.9	20
89	Monoclonal antibodies specific for discontinuous epitopes direct refolding of influenza A virus hemagglutinin. Molecular Immunology, 2010, 47, 1132-1136.	2.2	15
90	An R848-Conjugated Influenza Virus Vaccine Elicits Robust Immunoglobulin G to Hemagglutinin Stem in a Newborn Nonhuman Primate Model. Journal of Infectious Diseases, 2020, 224, 351-359.	4.0	14

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91	Flu DRiPs in MHC Class I Immunosurveillance. Virologica Sinica, 2019, 34, 162-167.	3.0	13
92	Influenza-infected newborn and adult monkeys exhibit a strong primary antibody response to hemagglutinin stem. JCI Insight, 2020, 5, .	5.0	13
93	Systematic Search Fails to Detect Immunogenic MHC Class-I-Restricted Determinants Encoded by Influenza A Virus Noncoding Sequences. Virology, 2003, 305, 50-54.	2.4	11
94	Immune MAL2-practice: breast cancer immunoevasion via MHC class I degradation. Journal of Clinical Investigation, 2021, 131, .	8.2	9
95	Host CD8Î±⁺ and CD103⁺ dendritic cells prime transplant antigenâ€specific CD8⁺ T cells via crossâ€dressing. Immunology and Cell Biology, 2020, 98, 563-576.	2.3	8
96	Autoimmune T cell recognition of alternative-reading-frame-encoded peptides. Nature Medicine, 2017, 23, 409-410.	30.7	7
97	Cutting Edge: Myosin 18A Is a Novel Checkpoint Regulator in B Cell Differentiation and Antibody-Mediated Immunity. Journal of Immunology, 2021, 206, 2521-2526.	0.8	5
98	The Remarkable Nilabh Shastri: Voices of his students, mentees, and colleagues. Molecular Immunology, 2022, 143, 100-104.	2.2	2
99	MLN4924 Inhibits Defective Ribosomal Product Antigen Presentation Independently of Direct NEDDylation of Protein Antigens. Journal of Immunology, 2022, , ji2100584.	0.8	0