

# Mark R Wills

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

5,263  
citations

117625

34  
h-index

95266

68  
g-index

73  
all docs

73  
docs citations

73  
times ranked

8321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity of SARS-CoV-2 B.1.1.7 to mRNA vaccine-elicited antibodies. <i>Nature</i> , 2021, 593, 136-141.	27.8	648
2	Ribosome Profiling Reveals Pervasive Translation Outside of Annotated Protein-Coding Genes. <i>Cell Reports</i> , 2014, 8, 1365-1379.	6.4	591
3	Functional Heterogeneity and High Frequencies of Cytomegalovirus-Specific CD8 <sup>+</sup> T Lymphocytes in Healthy Seropositive Donors. <i>Journal of Virology</i> , 2000, 74, 8140-8150.	3.4	396
4	Longitudinal analysis reveals that delayed bystander CD8 <sup>+</sup> T cell activation and early immune pathology distinguish severe COVID-19 from mild disease. <i>Immunity</i> , 2021, 54, 1257-1275.e8.	14.3	230
5	Human cytomegalovirus immunity and immune evasion. <i>Virus Research</i> , 2011, 157, 151-160.	2.2	225
6	Identification of Naive or Antigen-Experienced Human CD8 <sup>+</sup> T Cells by Expression of Costimulation and Chemokine Receptors: Analysis of the Human Cytomegalovirus-Specific CD8 <sup>+</sup> T Cell Response. <i>Journal of Immunology</i> , 2002, 168, 5455-5464.	0.8	189
7	The Memory Cytotoxic T-Lymphocyte (CTL) Response to Human Cytomegalovirus Infection Contains Individual Peptide-Specific CTL Clones That Have Undergone Extensive Expansion In Vivo. <i>Journal of Virology</i> , 1999, 73, 2099-2108.	3.4	186
8	Down-regulation of NKG2D and NKp80 ligands by Kaposi's sarcoma-associated herpesvirus K5 protects against NK cell cytotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 1656-1661.	7.1	159
9	Human Cytomegalovirus Encodes an MHC Class I-Like Molecule (UL142) That Functions to Inhibit NK Cell Lysis. <i>Journal of Immunology</i> , 2005, 175, 7457-7465.	0.8	125
10	Rapid CD8 <sup>+</sup> T Cell Repertoire Focusing and Selection of High-Affinity Clones into Memory Following Primary Infection with a Persistent Human Virus: Human Cytomegalovirus. <i>Journal of Immunology</i> , 2007, 179, 3203-3213.	0.8	124
11	The immunology of human cytomegalovirus latency: could latent infection be cleared by novel immunotherapeutic strategies?. <i>Cellular and Molecular Immunology</i> , 2015, 12, 128-138.	10.5	107
12	NKG2D Ligand MICA Is Retained in the cis-Golgi Apparatus by Human Cytomegalovirus Protein UL142. <i>Journal of Virology</i> , 2009, 83, 12345-12354.	3.4	105
13	Antiretroviral therapy alone versus antiretroviral therapy with a kick and kill approach, on measures of the HIV reservoir in participants with recent HIV infection (the RIVER trial): a phase 2, randomised trial. <i>Lancet, The</i> , 2020, 395, 888-898.	13.7	98
14	Regulation of NKG2D Ligand Gene Expression. <i>Human Immunology</i> , 2006, 67, 159-169.	2.4	97
15	Differential costimulation through CD137 (4-1BB) restores proliferation of human virus-specific effector memory (CD28 <sup>+</sup> CD45RA <sup>hi</sup> ) CD8 <sup>+</sup> T cells. <i>Blood</i> , 2007, 110, 4360-4366.	1.4	82
16	Latency-Associated Expression of Human Cytomegalovirus US28 Attenuates Cell Signaling Pathways To Maintain Latent Infection. <i>MBio</i> , 2017, 8, .	4.1	82
17	Human cytomegalovirus latency alters the cellular secretome, inducing cluster of differentiation (CD)4 <sup>+</sup> T-cell migration and suppression of effector function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14538-14543.	7.1	78
18	The RNA-binding E3 ubiquitin ligase MEX-3C links ubiquitination with MHC-I mRNA degradation. <i>EMBO Journal</i> , 2012, 31, 3596-3606.	7.8	74

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19	Dynamics of T cell memory in human cytomegalovirus infection. <i>Medical Microbiology and Immunology</i> , 2008, 197, 83-96.	4.8	72
20	Human Cytomegalovirus (HCMV)-Specific CD4 <sup>+</sup> T Cells Are Polyfunctional and Can Respond to HCMV-Infected Dendritic Cells <i>In Vitro</i> . <i>Journal of Virology</i> , 2017, 91, .	3.4	71
21	The Expression of Human Cytomegalovirus MicroRNA MiR-UL148D during Latent Infection in Primary Myeloid Cells Inhibits Activin A-triggered Secretion of IL-6. <i>Scientific Reports</i> , 2016, 6, 31205.	3.3	69
22	CMV immune evasion and manipulation of the immune system with aging. <i>GeroScience</i> , 2017, 39, 273-291.	4.6	69
23	Human Cytomegalovirus Latency-Associated Proteins Elicit Immune-Suppressive IL-10 Producing CD4 <sup>+</sup> T Cells. <i>PLoS Pathogens</i> , 2013, 9, e1003635.	4.7	68
24	Intracellular Sequestration of the NKG2D Ligand ULBP3 by Human Cytomegalovirus. <i>Journal of Immunology</i> , 2010, 185, 1093-1102.	0.8	61
25	Late diversification in the clonal composition of human cytomegalovirus-specific CD8 <sup>+</sup> T cells following allogeneic hemopoietic stem cell transplantation. <i>Blood</i> , 2003, 102, 3427-3438.	1.4	59
26	Latent Cytomegalovirus (CMV) Infection Does Not Detrimentally Alter T Cell Responses in the Healthy Old, But Increased Latent CMV Carriage Is Related to Expanded CMV-Specific T Cells. <i>Frontiers in Immunology</i> , 2017, 8, 733.	4.8	59
27	Latency-Associated Viral Interleukin-10 (IL-10) Encoded by Human Cytomegalovirus Modulates Cellular IL-10 and CCL8 Secretion during Latent Infection through Changes in the Cellular MicroRNA hsa-miR-92a. <i>Journal of Virology</i> , 2014, 88, 13947-13955.	3.4	53
28	The CD4 <sup>+</sup> T Cell Response to Human Cytomegalovirus in Healthy and Immunocompromised People. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 202.	3.9	53
29	Efficient Human Cytomegalovirus Reactivation Is Maturation Dependent in the Langerhans Dendritic Cell Lineage and Can Be Studied using a CD14 <sup>+</sup> Experimental Latency Model. <i>Journal of Virology</i> , 2012, 86, 8507-8515.	3.4	45
30	Modulation of Human Leukocyte Antigen-C by Human Cytomegalovirus Stimulates KIR2DS1 Recognition by Natural Killer Cells. <i>Frontiers in Immunology</i> , 2017, 8, 298.	4.8	45
31	Generation, maintenance and tissue distribution of T cell responses to human cytomegalovirus in lytic and latent infection. <i>Medical Microbiology and Immunology</i> , 2019, 208, 375-389.	4.8	43
32	Human cytomegalovirus miR-UL112-1 promotes the down-regulation of viral immediate early-gene expression during latency to prevent T-cell recognition of latently infected cells. <i>Journal of General Virology</i> , 2016, 97, 2387-2398.	2.9	43
33	How understanding immunology contributes to managing CMV disease in immunosuppressed patients: now and in future. <i>Medical Microbiology and Immunology</i> , 2015, 204, 307-316.	4.8	41
34	Long-Term Stable Expanded Human CD4 <sup>+</sup> T Cell Clones Specific for Human Cytomegalovirus Are Distributed in Both CD45RA <sup>high</sup> and CD45RO <sup>high</sup> Populations. <i>Journal of Immunology</i> , 2004, 173, 5843-5851.	0.8	40
35	Extracellular Lactate: A Novel Measure of T Cell Proliferation. <i>Journal of Immunology</i> , 2018, 200, 1220-1226.	0.8	39
36	A highly reproducible quantitative viral outgrowth assay for the measurement of the replication-competent latent HIV-1 reservoir. <i>Scientific Reports</i> , 2017, 7, 43231.	3.3	36

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37	Utilizing TAPBPR to promote exogenous peptide loading onto cell surface MHC I molecules. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9353-E9361.	7.1	35
38	Interferon-Responsive Genes Are Targeted during the Establishment of Human Cytomegalovirus Latency. MBio, 2019, 10, .	4.1	33
39	Natural killer cell evasion by an E3 ubiquitin ligase from Kaposi's sarcoma-associated herpesvirus. Biochemical Society Transactions, 2008, 36, 459-463.	3.4	31
40	Advances in cytomegalovirus (CMV) biology and its relationship to health, diseases, and aging. GeroScience, 2020, 42, 495-504.	4.6	29
41	B cell receptor repertoire kinetics after SARS-CoV-2 infection and vaccination. Cell Reports, 2022, 38, 110393.	6.4	29
42	Human cytomegalovirus-specific immunity following haemopoietic stem cell transplantation. Blood Reviews, 2003, 17, 259-264.	5.7	28
43	Leukocyte Immunoglobulin-Like Receptor 1-Expressing Human Natural Killer Cell Subsets Differentially Recognize Isolates of Human Cytomegalovirus through the Viral Major Histocompatibility Complex Class I Homolog UL18. Journal of Virology, 2016, 90, 3123-3137.	3.4	27
44	Bromodomain proteins regulate human cytomegalovirus latency and reactivation allowing epigenetic therapeutic intervention. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
45	HCMV Antivirals and Strategies to Target the Latent Reservoir. Viruses, 2021, 13, 817.	3.3	25
46	Human Cytomegalovirus Delays Neutrophil Apoptosis and Stimulates the Release of a Prosurvival Secretome. Frontiers in Immunology, 2017, 8, 1185.	4.8	22
47	Human Cytomegalovirus Latency: Targeting Differences in the Latently Infected Cell with a View to Clearing Latent Infection. New Journal of Science, 2014, 2014, 1-10.	1.0	21
48	Whole blood-based measurement of SARS-CoV-2-specific T cells reveals asymptomatic infection and vaccine immunogenicity in healthy subjects and patients with solid-organ cancers. Immunology, 2022, 165, 250-259.	4.4	21
49	Distinct Roles of Extracellular Domains in the Epstein-Barr Virus-Encoded BILF1 Receptor for Signaling and Major Histocompatibility Complex Class I Downregulation. MBio, 2019, 10, .	4.1	18
50	An iPSC-Derived Myeloid Lineage Model of Herpes Virus Latency and Reactivation. Frontiers in Microbiology, 2019, 10, 2233.	3.5	18
51	Nanopore sequencing and full genome de novo assembly of human cytomegalovirus TB40/E reveals clonal diversity and structural variations. BMC Genomics, 2018, 19, 577.	2.8	17
52	Monoclonal antibodies targeting nonstructural viral antigens can activate ADCC against human cytomegalovirus. Journal of Clinical Investigation, 2021, 131, .	8.2	17
53	Targeting the latent human cytomegalovirus reservoir for T-cell-mediated killing with virus-specific nanobodies. Nature Communications, 2021, 12, 4436.	12.8	16
54	Progressive loss of IL-2-expandable HIV-1-specific cytotoxic T lymphocytes during asymptomatic HIV infection. European Journal of Immunology, 1998, 28, 3564-3576.	2.9	15

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55	Human Cytomegalovirus Upregulates Expression of HCLS1 Resulting in Increased Cell Motility and Transendothelial Migration during Latency. <i>IScience</i> , 2019, 20, 60-72.	4.1	15
56	Large HIV-specific CD8+ cytotoxic T-lymphocyte (CTL) clones reduce their overall size but maintain high frequencies of memory CTL following highly active antiretroviral therapy. <i>Immunology</i> , 2006, 118, 25-38.	4.4	14
57	No evidence of ongoing evolution in replication competent latent HIV-1 in a patient followed up for two years. <i>Scientific Reports</i> , 2018, 8, 2639.	3.3	14
58	Human cytomegalovirus major immediate early transcripts arise predominantly from the canonical major immediate early promoter in reactivating progenitor-derived dendritic cells. <i>Journal of General Virology</i> , 2020, 101, 635-644.	2.9	13
59	A BMPR2/YY1 Signaling Axis Is Required for Human Cytomegalovirus Latency in Undifferentiated Myeloid Cells. <i>MBio</i> , 2021, 12, e0022721.	4.1	11
60	HCMV activation of ERK-MAPK drives a multi-factorial response promoting the survival of infected myeloid progenitors. <i>Journal of Molecular Biochemistry</i> , 2017, 6, 13-25.	0.1	11
61	Bromodomain Inhibitors as Therapeutics for Herpesvirus-Related Disease: All BETs Are Off?. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 329.	3.9	10
62	Latent Cytomegalovirus-Driven Recruitment of Activated CD4+ T Cells Promotes Virus Reactivation. <i>Frontiers in Immunology</i> , 2021, 12, 657945.	4.8	10
63	Assessing Anti-HCMV Cell Mediated Immune Responses in Transplant Recipients and Healthy Controls Using a Novel Functional Assay. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 275.	3.9	9
64	Killer cell proteases can target viral immediate-early proteins to control human cytomegalovirus infection in a noncytotoxic manner. <i>PLoS Pathogens</i> , 2020, 16, e1008426.	4.7	9
65	Using Primary Human Cells to Analyze Human Cytomegalovirus Biology. <i>Methods in Molecular Biology</i> , 2021, 2244, 51-81.	0.9	9
66	Comparative Cell Surface Proteomic Analysis of the Primary Human T Cell and Monocyte Responses to Type I Interferon. <i>Frontiers in Immunology</i> , 2021, 12, 600056.	4.8	7
67	Innovations in the quantitative virus outgrowth assay and its use in clinical trials. <i>Retrovirology</i> , 2017, 14, 58.	2.0	6
68	HCMV: immunobiology and host response. , 0, , 780-794.		5
69	A novel, sensitive dual-indicator cell line for detection and quantification of inducible, replication-competent latent HIV-1 from reservoir cells. <i>Scientific Reports</i> , 2019, 9, 19325.	3.3	1
70	Preface. <i>Virus Research</i> , 2011, 157, 127.	2.2	0