

# Martin Messerle

## List of Publications by Citations

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116  
papers

5,466  
citations

39  
h-index

71  
g-index

119  
ext. papers

6,189  
ext. citations

8  
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5.04  
L-index

#	Paper	IF	Citations
116	Cloning of the human cytomegalovirus (HCMV) genome as an infectious bacterial artificial chromosome in <i>Escherichia coli</i> : a new approach for construction of HCMV mutants. <i>Journal of Virology</i> , <b>1999</b> , 73, 8320-9	6.6	327
115	Human cytomegalovirus binding to DC-SIGN is required for dendritic cell infection and target cell trans-infection. <i>Immunity</i> , <b>2002</b> , 17, 653-64	32.3	302
114	Cloning and sequencing of a highly productive, endotheliotropic virus strain derived from human cytomegalovirus TB40/E. <i>Journal of General Virology</i> , <b>2008</b> , 89, 359-368	4.9	280
113	Cloning and mutagenesis of the murine gammaherpesvirus 68 genome as an infectious bacterial artificial chromosome. <i>Journal of Virology</i> , <b>2000</b> , 74, 6964-74	6.6	280
112	Systematic excision of vector sequences from the BAC-cloned herpesvirus genome during virus reconstitution. <i>Journal of Virology</i> , <b>1999</b> , 73, 7056-60	6.6	258
111	Fast screening procedures for random transposon libraries of cloned herpesvirus genomes: mutational analysis of human cytomegalovirus envelope glycoprotein genes. <i>Journal of Virology</i> , <b>2000</b> , 74, 7720-9	6.6	201
110	Peptide-specific recognition of human cytomegalovirus strains controls adaptive natural killer cells. <i>Nature Immunology</i> , <b>2018</b> , 19, 453-463	19.1	180
109	Identification and expression of human cytomegalovirus transcription units coding for two distinct Fcγ receptor homologs. <i>Journal of Virology</i> , <b>2002</b> , 76, 8596-608	6.6	142
108	Prevention of tuberculosis in rhesus macaques by a cytomegalovirus-based vaccine. <i>Nature Medicine</i> , <b>2018</b> , 24, 130-143	50.5	141
107	In Vivo Killing Capacity of Cytotoxic T Cells Is Limited and Involves Dynamic Interactions and T Cell Cooperativity. <i>Immunity</i> , <b>2016</b> , 44, 233-45	32.3	131
106	NK cell activation through the NKG2D ligand MULT-1 is selectively prevented by the glycoprotein encoded by mouse cytomegalovirus gene m145. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 201, 211-20	16.6	128
105	The immunoevasive function encoded by the mouse cytomegalovirus gene m152 protects the virus against T cell control in vivo. <i>Journal of Experimental Medicine</i> , <b>1999</b> , 190, 1285-96	16.6	112
104	cGAS Senses Human Cytomegalovirus and Induces Type I Interferon Responses in Human Monocyte-Derived Cells. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005546	7.6	112
103	Frequent coinfection of cells explains functional in vivo complementation between cytomegalovirus variants in the multiply infected host. <i>Journal of Virology</i> , <b>2005</b> , 79, 9492-502	6.6	106
102	Rapid identification of essential and nonessential herpesvirus genes by direct transposon mutagenesis. <i>Nature Biotechnology</i> , <b>1999</b> , 17, 360-4	44.5	100
101	Selective down-regulation of the NKG2D ligand H60 by mouse cytomegalovirus m155 glycoprotein. <i>Journal of Virology</i> , <b>2005</b> , 79, 2920-30	6.6	94
100	Forward with BACs: new tools for herpesvirus genomics. <i>Trends in Genetics</i> , <b>2000</b> , 16, 254-9	8.5	91

99	Protection from CMV infection in immunodeficient hosts by adoptive transfer of memory B cells. <i>Blood</i> , <b>2007</b> , 110, 3472-9	2.2	89
98	The herpesviral Fc receptor fcr-1 down-regulates the NKG2D ligands MULT-1 and H60. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 1843-50	16.6	84
97	The major immediate-early gene ie3 of mouse cytomegalovirus is essential for viral growth. <i>Journal of Virology</i> , <b>2000</b> , 74, 11129-36	6.6	82
96	Virus reconstituted from infectious bacterial artificial chromosome (BAC)-cloned murine gammaherpesvirus 68 acquires wild-type properties in vivo only after excision of BAC vector sequences. <i>Journal of Virology</i> , <b>2001</b> , 75, 5692-6	6.6	76
95	Use of a murine cytomegalovirus K181-derived bacterial artificial chromosome as a vaccine vector for immunocontraception. <i>Journal of Virology</i> , <b>2005</b> , 79, 2998-3008	6.6	71
94	Nuclear egress and envelopment of herpes simplex virus capsids analyzed with dual-color fluorescence HSV1(17+). <i>Journal of Virology</i> , <b>2008</b> , 82, 3109-24	6.6	66
93	Neutrality of the canonical NF-kappaB-dependent pathway for human and murine cytomegalovirus transcription and replication in vitro. <i>Journal of Virology</i> , <b>2004</b> , 78, 741-50	6.6	66
92	Cloning of herpesviral genomes as bacterial artificial chromosomes. <i>Reviews in Medical Virology</i> , <b>2003</b> , 13, 111-21	11.7	65
91	Virus attenuation after deletion of the cytomegalovirus Fc receptor gene is not due to antibody control. <i>Journal of Virology</i> , <b>1998</b> , 72, 1377-82	6.6	63
90	The human cytomegalovirus UL51 protein is essential for viral genome cleavage-packaging and interacts with the terminase subunits pUL56 and pUL89. <i>Journal of Virology</i> , <b>2013</b> , 87, 1720-32	6.6	62
89	Dendritic cells under influence of mouse cytomegalovirus have a physiologic dual role: to initiate and to restrict T cell activation. <i>Journal of Infectious Diseases</i> , <b>2003</b> , 187, 988-99	7	60
88	Recombinant mouse cytomegalovirus expressing a ligand for the NKG2D receptor is attenuated and has improved vaccine properties. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 4532-45	15.9	59
87	Identification of a mouse cytomegalovirus gene selectively targeting CD86 expression on antigen-presenting cells. <i>Journal of Virology</i> , <b>2004</b> , 78, 13062-71	6.6	52
86	The products of the UL10 (gM) and the UL49.5 genes of Marek's disease virus serotype 1 are essential for virus growth in cultured cells. <i>Journal of General Virology</i> , <b>2002</b> , 83, 997-1003	4.9	52
85	Genetic evidence of an essential role for cytomegalovirus small capsid protein in viral growth. <i>Journal of Virology</i> , <b>2001</b> , 75, 1450-8	6.6	48
84	Priming of CD8+ T cells against cytomegalovirus-encoded antigens is dominated by cross-presentation. <i>Journal of Immunology</i> , <b>2013</b> , 190, 2767-77	5.3	44
83	Conditional and reversible disruption of essential herpesvirus proteins. <i>Nature Methods</i> , <b>2009</b> , 6, 577-9	21.6	43
82	Enhancer requirement for murine cytomegalovirus growth and genetic complementation by the human cytomegalovirus enhancer. <i>Journal of Virology</i> , <b>1998</b> , 72, 8502-9	6.6	43

81	Reversible silencing of cytomegalovirus genomes by type I interferon governs virus latency. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1003962	7.6	42
80	A redshifted codon-optimized firefly luciferase is a sensitive reporter for bioluminescence imaging. <i>Photochemical and Photobiological Sciences</i> , <b>2009</b> , 8, 52-6	4.2	41
79	Systemic Virus Infections Differentially Modulate Cell Cycle State and Functionality of Long-Term Hematopoietic Stem Cells In Vivo. <i>Cell Reports</i> , <b>2017</b> , 19, 2345-2356	10.6	40
78	The essential human cytomegalovirus gene UL52 is required for cleavage-packaging of the viral genome. <i>Journal of Virology</i> , <b>2008</b> , 82, 2065-78	6.6	40
77	Single cell detection of latent cytomegalovirus reactivation in host tissue. <i>Journal of General Virology</i> , <b>2011</b> , 92, 1279-1291	4.9	39
76	Identification of the interaction domain of the small terminase subunit pUL89 with the large subunit pUL56 of human cytomegalovirus. <i>Biochemistry</i> , <b>2006</b> , 45, 8855-63	3.2	39
75	Analysis of human cytomegalovirus oriLyt sequence requirements in the context of the viral genome. <i>Journal of Virology</i> , <b>2005</b> , 79, 3615-26	6.6	38
74	Absence of Siglec-H in MCMV infection elevates interferon alpha production but does not enhance viral clearance. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003648	7.6	37
73	The human cytomegalovirus UL11 protein interacts with the receptor tyrosine phosphatase CD45, resulting in functional paralysis of T cells. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002432	7.6	37
72	Regulation of the transcription and replication cycle of human cytomegalovirus is insensitive to genetic elimination of the cognate NF-kappaB binding sites in the enhancer. <i>Journal of Virology</i> , <b>2006</b> , 80, 9899-904	6.6	37
71	Elimination of ie1 significantly attenuates murine cytomegalovirus virulence but does not alter replicative capacity in cell culture. <i>Journal of Virology</i> , <b>2005</b> , 79, 7182-94	6.6	37
70	Nodular inflammatory foci are sites of T cell priming and control of murine cytomegalovirus infection in the neonatal lung. <i>PLoS Pathogens</i> , <b>2013</b> , 9, e1003828	7.6	33
69	Proteolytic processing of human cytomegalovirus glycoprotein B is dispensable for viral growth in culture. <i>Journal of Virology</i> , <b>2002</b> , 76, 1252-64	6.6	33
68	Use of bacterial artificial chromosomes in generating targeted mutations in human and mouse cytomegaloviruses. <i>Current Protocols in Immunology</i> , <b>2007</b> , Chapter 10, Unit 10.32	4	32
67	Comparison between human cytomegalovirus pUL97 and murine cytomegalovirus (MCMV) pM97 expressed by MCMV and vaccinia virus: pM97 does not confer ganciclovir sensitivity. <i>Journal of Virology</i> , <b>2000</b> , 74, 10729-36	6.6	32
66	Inflammatory monocytes and NK cells play a crucial role in DNAM-1-dependent control of cytomegalovirus infection. <i>Journal of Experimental Medicine</i> , <b>2016</b> , 213, 1835-50	16.6	32
65	An essential role of the enhancer for murine cytomegalovirus in vivo growth and pathogenesis. <i>Journal of Virology</i> , <b>2003</b> , 77, 3217-28	6.6	31
64	Cytomegalovirus immune evasion of myeloid lineage cells. <i>Medical Microbiology and Immunology</i> , <b>2015</b> , 204, 367-82	4	28

63	Cytomegalovirus m154 hinders CD48 cell-surface expression and promotes viral escape from host natural killer cell control. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1004000	7.6	28
62	The activator protein 1 binding motifs within the human cytomegalovirus major immediate-early enhancer are functionally redundant and act in a cooperative manner with the NF- $\kappa$ B sites during acute infection. <i>Journal of Virology</i> , <b>2011</b> , 85, 1732-46	6.6	28
61	Characterization of the murine cytomegalovirus genes encoding the major DNA binding protein and the ICP18.5 homolog. <i>Virology</i> , <b>1992</b> , 191, 355-67	3.6	27
60	The Essential Human Cytomegalovirus Proteins pUL77 and pUL93 Are Structural Components Necessary for Viral Genome Encapsidation. <i>Journal of Virology</i> , <b>2016</b> , 90, 5860-5875	6.6	26
59	A peptide inhibitor of cytomegalovirus infection from human hemofiltrate. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2013</b> , 57, 4751-60	5.9	26
58	Mutual Interplay between the Human Cytomegalovirus Terminase Subunits pUL51, pUL56, and pUL89 Promotes Terminase Complex Formation. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	24
57	Human cytomegalovirus escapes immune recognition by NK cells through the downregulation of B7-H6 by the viral genes US18 and US20. <i>Scientific Reports</i> , <b>2017</b> , 7, 8661	4.9	24
56	Temporal profiling of the coding and noncoding murine cytomegalovirus transcriptomes. <i>Journal of Virology</i> , <b>2011</b> , 85, 6065-76	6.6	24
55	Murine cytomegalovirus abortively infects human dendritic cells, leading to expression and presentation of virally vectored genes. <i>Journal of Virology</i> , <b>2003</b> , 77, 7182-92	6.6	24
54	Phenotypes of major immediate-early gene mutants of mouse cytomegalovirus. <i>Medical Microbiology and Immunology</i> , <b>2008</b> , 197, 233-40	4	22
53	Cross-presentation of Listeria-derived CD8 T cell epitopes requires unstable bacterial translation products. <i>Journal of Immunology</i> , <b>2004</b> , 173, 5644-51	5.3	21
52	Superior induction and maintenance of protective CD8 T cells in mice infected with mouse cytomegalovirus vector expressing RAE-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 16550-5	11.5	20
51	M27 expressed by cytomegalovirus counteracts effective type I interferon induction of myeloid cells but not of plasmacytoid dendritic cells. <i>Journal of Virology</i> , <b>2014</b> , 88, 13638-50	6.6	20
50	Identification of a boundary domain adjacent to the potent human cytomegalovirus enhancer that represses transcription of the divergent UL127 promoter. <i>Journal of Virology</i> , <b>2000</b> , 74, 2826-39	6.6	20
49	Molecular analysis of herpesviral gene products recognized by protective cytolytic T lymphocytes. <i>Immunology Letters</i> , <b>1987</b> , 16, 185-92	4.1	20
48	Engineered dendritic cells from cord blood and adult blood accelerate effector T cell immune reconstitution against HCMV. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2015</b> , 1, 14060	6.4	19
47	Labyrinthopeptins Exert Broad-Spectrum Antiviral Activity through Lipid-Binding-Mediated Virolysis. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	18
46	Expression of the human cytomegalovirus UL11 glycoprotein in viral infection and evaluation of its effect on virus-specific CD8 T cells. <i>Journal of Virology</i> , <b>2014</b> , 88, 14326-39	6.6	17

45	Cytomegalovirus bacterial artificial chromosomes: a new herpesvirus vector approach. <i>Advances in Virus Research</i> , <b>2000</b> , 55, 463-78	10.7	16
44	Mutagenesis of herpesvirus BACs by allele replacement. <i>Methods in Molecular Biology</i> , <b>2004</b> , 256, 269-79	1.4	15
43	Activation of Innate and Adaptive Immunity by a Recombinant Human Cytomegalovirus Strain Expressing an NKG2D Ligand. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1006015	7.6	15
42	Signatures of T and B Cell Development, Functional Responses and PD-1 Upregulation After HCMV Latent Infections and Reactivations in Nod.Rag.Gamma Mice Humanized With Cord Blood CD34 Cells. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 2734	8.4	15
41	Cytomegalovirus vector expressing RAE-1 induces enhanced anti-tumor capacity of murine CD8 T cells. <i>European Journal of Immunology</i> , <b>2017</b> , 47, 1354-1367	6.1	14
40	A Prominent Role of the Human Cytomegalovirus UL8 Glycoprotein in Restraining Proinflammatory Cytokine Production by Myeloid Cells at Late Times during Infection. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	14
39	Novel DNA polymerase mutations conferring cytomegalovirus resistance: input of BAC-recombinant phenotyping and 3D model. <i>Antiviral Research</i> , <b>2013</b> , 98, 130-4	10.8	14
38	Construction of a cytomegalovirus-based amplicon: a vector with a unique transfer capacity. <i>Human Gene Therapy</i> , <b>2003</b> , 14, 959-70	4.8	14
37	Viral interference with functions of the cellular receptor tyrosine phosphatase CD45. <i>Viruses</i> , <b>2015</b> , 7, 1540-57	6.2	12
36	Cloning of beta-herpesvirus genomes as bacterial artificial chromosomes. <i>Methods in Molecular Biology</i> , <b>2004</b> , 256, 221-39	1.4	12
35	The location and sequence composition of the murine cytomegalovirus replicator (oriLyt). <i>Virology</i> , <b>1997</b> , 230, 350-60	3.6	11
34	Laboratory diagnostics of murine blood for detection of mouse cytomegalovirus (MCMV)-induced hepatitis. <i>Scientific Reports</i> , <b>2018</b> , 8, 14823	4.9	11
33	Fine Mapping the Interaction Between Dendritic Cell-Specific Intercellular Adhesion Molecule (ICAM)-3-Grabbing Nonintegrin and the Cytomegalovirus Envelope Glycoprotein B. <i>Journal of Infectious Diseases</i> , <b>2018</b> , 218, 490-503	7	10
32	Myeloid Dendritic Cells Repress Human Cytomegalovirus Gene Expression and Spread by Releasing Interferon-Unrelated Soluble Antiviral Factors. <i>Journal of Virology</i> , <b>2018</b> , 92,	6.6	10
31	Prolonged endoplasmic reticulum stress promotes mislocalization of immunoglobulins to the cytoplasm. <i>Molecular Immunology</i> , <b>2010</b> , 47, 1719-27	4.3	10
30	Control of primary mouse cytomegalovirus infection in lung nodular inflammatory foci by cooperation of interferon-gamma expressing CD4 and CD8 T cells. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007252	7.6	10
29	The mouse cytomegalovirus immediate-early 1 gene is not required for establishment of latency or for reactivation in the lungs. <i>Journal of Virology</i> , <b>2009</b> , 83, 4030-8	6.6	9
28	Ablation of the regulatory IE1 protein of murine cytomegalovirus alters in vivo pro-inflammatory TNF-alpha production during acute infection. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002901	7.6	9

27	The Mouse Cytomegalovirus Gene m42 Targets Surface Expression of the Protein Tyrosine Phosphatase CD45 in Infected Macrophages. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1006057	7.6	9
26	Analysis of essential viral gene functions after highly efficient adenofection of cells with cloned human cytomegalovirus genomes. <i>Viruses</i> , <b>2014</b> , 6, 354-70	6.2	8
25	Tumor-specific activity of cellular regulatory elements is down-regulated upon insertion into the herpes simplex virus genome. <i>Journal of NeuroVirology</i> , <b>2008</b> , 14, 522-35	3.9	7
24	Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008560	7.6	7
23	The M25 gene products are critical for the cytopathic effect of mouse cytomegalovirus. <i>Scientific Reports</i> , <b>2017</b> , 7, 15588	4.9	6
22	In vivo competence of murine cytomegalovirus under the control of the human cytomegalovirus major immediate-early enhancer in the establishment of latency and reactivation. <i>Journal of Virology</i> , <b>2008</b> , 82, 10302-7	6.6	6
21	Lack of XBP-1 impedes murine cytomegalovirus gene expression. <i>PLoS ONE</i> , <b>2014</b> , 9, e110942	3.7	6
20	The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	5
19	Genetic labeling reveals altered turnover and stability of innate lymphocytes in latent mouse cytomegalovirus infection. <i>Journal of Immunology</i> , <b>2011</b> , 186, 2918-25	5.3	4
18	Use of recombinant approaches to construct human cytomegalovirus mutants. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1119, 59-79	1.4	4
17	Characterization of a conserved gene block in the murine cytomegalovirus genome. <i>Virus Genes</i> , <b>1995</b> , 10, 73-80	2.3	3
16	The C-terminal part of the human cytomegalovirus terminase subunit pUL51 is central for terminase complex assembly. <i>Journal of General Virology</i> , <b>2018</b> , 99, 119-134	4.9	3
15	Murine Cytomegalovirus M25 Proteins Sequester the Tumor Suppressor Protein p53 in Nuclear Accumulations. <i>Journal of Virology</i> , <b>2020</b> , 94,	6.6	3
14	Construction of Human Cytomegalovirus Mutants with Markerless BAC Mutagenesis. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2244, 133-158	1.4	2
13	Cytomegalovirus restricts ICOSL expression on antigen-presenting cells disabling T cell co-stimulation and contributing to immune evasion. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
12	Differential effects of Belatacept on virus-specific memory versus de novo allo-specific T cell responses of kidney transplant recipients and healthy donors. <i>Transplant Immunology</i> , <b>2020</b> , 61, 101291	1.7	1
11	MCMV-based vaccine vectors expressing full-length viral proteins provide long-term humoral immune protection upon a single-shot vaccination.. <i>Cellular and Molecular Immunology</i> , <b>2022</b> ,	15.4	1
10	Assembly of infectious Kaposi's sarcoma-associated herpesvirus progeny requires formation of a pORF19 pentamer. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001423	9.7	1

- 9 Comprehensive Analysis of Human Cytomegalovirus- and HIV-Mediated Plasma Membrane Remodeling in Macrophages. *MBio*, **2021**, 12, e0177021 7.8 1
- 8 Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV **2020**, 16, e1008560
- 7 Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV **2020**, 16, e1008560
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- 1 Repertoire characterization and validation of gB-specific human IgGs directly cloned from humanized mice vaccinated with dendritic cells and protected against HCMV **2020**, 16, e1008560