

# Mark R Walter

## List of Publications by Year in descending order

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95  
papers

6,945  
citations

100601

38  
h-index

71088

80  
g-index

104  
all docs

104  
docs citations

104  
times ranked

9199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-color single-molecule imaging with engineered tags resolves the molecular architecture of signaling complexes in the plasma membrane. <i>Cell Reports Methods</i> , 2022, 2, 100165.	1.4	27
2	Rapid in vitro assays for screening neutralizing antibodies and antivirals against SARS-CoV-2. <i>Journal of Virological Methods</i> , 2021, 287, 113995.	1.0	39
3	Editorial: Structures, Signaling Mechanisms, and Functions of Types I and III Interferons. <i>Frontiers in Immunology</i> , 2021, 12, 638479.	2.2	2
4	Generation and Characterization of Recombinant SARS-CoV-2 Expressing Reporter Genes. <i>Journal of Virology</i> , 2021, 95, .	1.5	37
5	Therapeutic activity of an inhaled potent SARS-CoV-2 neutralizing human monoclonal antibody in hamsters. <i>Cell Reports Medicine</i> , 2021, 2, 100218.	3.3	57
6	Selection, identification, and characterization of SARS-CoV-2 monoclonal antibody resistant mutants. <i>Journal of Virological Methods</i> , 2021, 290, 114084.	1.0	1
7	Epitope Classification and RBD Binding Properties of Neutralizing Antibodies Against SARS-CoV-2 Variants of Concern. <i>Frontiers in Immunology</i> , 2021, 12, 691715.	2.2	76
8	A Bifluorescent-Based Assay for the Identification of Neutralizing Antibodies against SARS-CoV-2 Variants of Concern <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Virology</i> , 2021, 95, e0112621.	1.5	13
9	Analysis of SARS-CoV-2 infection dynamic in vivo using reporter-expressing viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	25
10	Cytomegalovirus-vectored vaccines for HIV and other pathogens. <i>Aids</i> , 2020, 34, 335-349.	1.0	10
11	The Role of Structure in the Biology of Interferon Signaling. <i>Frontiers in Immunology</i> , 2020, 11, 606489.	2.2	77
12	Engineered IL-10 variants elicit potent immunomodulatory effects at low ligand doses. <i>Science Signaling</i> , 2020, 13, .	1.6	47
13	Characterization of Type-I IFN subtype autoantibodies and activity in SLE serum and urine. <i>Lupus</i> , 2020, 29, 1095-1105.	0.8	11
14	Neutralization of rhesus cytomegalovirus IL-10 reduces horizontal transmission and alters long-term immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13036-13041.	3.3	9
15	Analysis of interleukin-20 receptor complexes in trabecular meshwork cells and effects of cytokine signaling in anterior segment perfusion culture. <i>Molecular Vision</i> , 2019, 25, 266-282.	1.1	1
16	Human interferon- $\mu$ and interferon- $\hat{p}$ exhibit low potency and low affinity for cell-surface IFNAR and the poxvirus antagonist B18R. <i>Journal of Biological Chemistry</i> , 2018, 293, 16057-16068.	1.6	21
17	Plasmablast Response to Primary Rhesus Cytomegalovirus (CMV) Infection in a Monkey Model of Congenital CMV Transmission. <i>Vaccine Journal</i> , 2017, 24, .	3.2	15
18	A panel of synthetic antibodies that selectively recognize and antagonize members of the interferon alpha family. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 697-704.	1.0	2

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19	Cutting Edge: Endogenous IFN- $\beta$ Regulates Survival and Development of Transitional B Cells. <i>Journal of Immunology</i> , 2017, 199, 2618-2623.	0.4	28
20	Preexisting antibodies can protect against congenital cytomegalovirus infection in monkeys. <i>JCI Insight</i> , 2017, 2, .	2.3	63
21	Structural Biology of JAK/STAT Cytokines and Their Receptors. , 2016, , 124-133.		0
22	A Heterozygous <i>RAB27A</i> Mutation Associated with Delayed Cytolytic Granule Polarization and Hemophagocytic Lymphohistiocytosis. <i>Journal of Immunology</i> , 2016, 196, 2492-2503.	0.4	77
23	Exploitation of Interleukin-10 (IL-10) Signaling Pathways: Alternate Roles of Viral and Cellular IL-10 in Rhesus Cytomegalovirus Infection. <i>Journal of Virology</i> , 2016, 90, 9920-9930.	1.5	17
24	VpreB serves as an invariant surrogate antigen for selecting immunoglobulin antigen-binding sites. <i>Science Immunology</i> , 2016, 1, .	5.6	29
25	Cytokine Activation by Antibody Fragments Targeted to Cytokine-Receptor Signaling Complexes. <i>Journal of Biological Chemistry</i> , 2016, 291, 447-461.	1.6	9
26	The susceptibility of primary cultured rhesus macaque kidney epithelial cells to rhesus cytomegalovirus strains. <i>Journal of General Virology</i> , 2016, 97, 1426-1438.	1.3	21
27	Missense splice variant (g.20746A>G, p.Ile183Val) of interferon gamma receptor 1 (IFNGR1) coincidental with mycobacterial osteomyelitis - a screen of osteoarticular lesions. <i>Bosnian Journal of Basic Medical Sciences</i> , 2016, 16, 215-221.	0.6	3
28	Elucidating new drug targets in psoriasis by gene profiling: an opportunity to be seized. <i>Annals of Translational Medicine</i> , 2015, 3, 78.	0.7	0
29	The Old but New IgM Fc Receptor (Fc $\gamma$ 1/4R). <i>Current Topics in Microbiology and Immunology</i> , 2014, 382, 3-28.	0.7	21
30	Very Early Onset Inflammatory Bowel Disease Associated with Aberrant Trafficking of IL-10R1 and Cure by T Cell Replete Haploidentical Bone Marrow Transplantation. <i>Journal of Clinical Immunology</i> , 2014, 34, 331-339.	2.0	62
31	Production and characterization of thirteen human type-I interferon- $\beta$ subtypes. <i>Protein Expression and Purification</i> , 2014, 103, 75-83.	0.6	15
32	The Molecular Basis of IL-10 Function: from Receptor Structure to the Onset of Signaling. <i>Current Topics in Microbiology and Immunology</i> , 2014, 380, 191-212.	0.7	96
33	Kinetic analysis of cytokine-mediated receptor assembly using engineered FC heterodimers. <i>Protein Science</i> , 2013, 22, 1100-1108.	3.1	12
34	Vaccination against a Virus-Encoded Cytokine Significantly Restricts Viral Challenge. <i>Journal of Virology</i> , 2013, 87, 11323-11331.	1.5	26
35	Epstein-Barr Virus IL-10 Engages IL-10R1 by a Two-step Mechanism Leading to Altered Signaling Properties. <i>Journal of Biological Chemistry</i> , 2012, 287, 26586-26595.	1.6	27
36	Structural basis for receptor sharing and activation by interleukin-20 receptor-2 (IL-20R2) binding cytokines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12704-12709.	3.3	72

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37	Host Immune Responses to a Viral Immune Modulating Protein: Immunogenicity of Viral Interleukin-10 in Rhesus Cytomegalovirus-Infected Rhesus Macaques. PLoS ONE, 2012, 7, e37931.	1.1	16
38	Purification, crystallization and preliminary X-ray diffraction analysis of the IL-20â€“IL-20R1â€“IL-20R2 complex. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 89-92.	0.7	0
39	PS2-111. Targeting the IL-10 signalling pathway as a vaccine strategy for HCMV. Cytokine, 2011, 56, 94.	1.4	2
40	Design and Analysis of Rhesus Cytomegalovirus IL-10 Mutants as a Model for Novel Vaccines against Human Cytomegalovirus. PLoS ONE, 2011, 6, e28127.	1.1	18
41	Structure and Mechanism of Receptor Sharing by the IL-10R2 Common Chain. Structure, 2010, 18, 638-648.	1.6	74
42	Cytokineâ€“receptor interactions as drug targets. Current Opinion in Chemical Biology, 2010, 14, 511-519.	2.8	46
43	Structure of IFNÎ³ and its Receptors. , 2010, , 261-263.		2
44	Substitution of Adenovirus Serotype 3 Hexon onto a Serotype 5 Oncolytic Adenovirus Reduces Factor X Binding, Decreases Liver Tropism, and Improves Antitumor Efficacy. Molecular Cancer Therapeutics, 2010, 9, 2536-2544.	1.9	48
45	A Docking Model Based on Mass Spectrometric and Biochemical Data Describes Phage Packaging Motor Incorporation. Molecular and Cellular Proteomics, 2010, 9, 1764-1773.	2.5	31
46	Interleukin-26: An IL-10-related cytokine produced by Th17 cells. Cytokine and Growth Factor Reviews, 2010, 21, 393-401.	3.2	113
47	Crystallization and preliminary X-ray diffraction analysis of human IL-22 bound to the extracellular IL-22R1 chain. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 266-269.	0.7	7
48	Structure of IL-22 Bound to Its High-Affinity IL-22R1 Chain. Structure, 2008, 16, 1333-1344.	1.6	153
49	Structure and mechanism of IFN-Î³ antagonism by an orthopoxvirus IFN-Î³-binding protein. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1861-1866.	3.3	31
50	Identification and characterization of a +1 frameshift observed during the expression of Epstein-Barr virus IL-10 in Escherichia coli. Protein Expression and Purification, 2007, 53, 132-137.	0.6	6
51	Isolation of flagellated bacteria implicated in Crohn's disease. Inflammatory Bowel Diseases, 2007, 13, 1191-1201.	0.9	108
52	Protein Crystallization. , 2007, 383, 337-349.		4
53	Characterization of Monocyte-Derived Dendritic Cells Maturated With IFN-alpha. Scandinavian Journal of Immunology, 2006, 63, 217-222.	1.3	19
54	BiP/GRP78 Is an Intracellular Target for MDA-7/IL-24 Induction of Cancer-Specific Apoptosis. Cancer Research, 2006, 66, 8182-8191.	0.4	113

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55	The Unique C Termini of Orthopoxvirus Gamma Interferon Binding Proteins Are Essential for Ligand Binding. <i>Journal of Virology</i> , 2006, 80, 10675-10682.	1.5	12
56	Conformational Changes Mediate Interleukin-10 Receptor 2 (IL-10R2) Binding to IL-10 and Assembly of the Signaling Complex. <i>Journal of Biological Chemistry</i> , 2006, 281, 35088-35096.	1.6	107
57	Unique aspects of mda-7/IL-24 antitumor bystander activity: establishing a role for secretion of MDA-7/IL-24 protein by normal cells. <i>Oncogene</i> , 2005, 24, 7552-7566.	2.6	137
58	Phenotypic and Functional Characterization of Clinical Grade Dendritic Cells Generated from Patients with Advanced Breast Cancer for Therapeutic Vaccination. <i>Scandinavian Journal of Immunology</i> , 2005, 61, 147-156.	1.3	47
59	Same Structure, Different Function. <i>Structure</i> , 2005, 13, 551-564.	1.6	78
60	Structure of insect-cell-derived IL-22. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 942-950.	2.5	43
61	Structural Analysis of IL-10 and Type I Interferon Family Members and their Complexes with Receptor. <i>Advances in Protein Chemistry</i> , 2004, 68, 171-223.	4.4	40
62	An Early Stage of Mason-Pfizer Monkey Virus Budding Is Regulated by the Hydrophobicity of the Gag Matrix Domain Core. <i>Journal of Virology</i> , 2004, 78, 5023-5031.	1.5	14
63	Interferons, interferon-like cytokines, and their receptors. <i>Immunological Reviews</i> , 2004, 202, 8-32.	2.8	1,440
64	Induction of regulatory dendritic cells by dexamethasone and $1\alpha,25$ -Dihydroxyvitamin D <sub>3</sub> . <i>Immunology Letters</i> , 2004, 91, 63-69.	1.1	87
65	Crystallization and X-ray diffraction analysis of insect-cell-derived IL-22. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1295-1298.	2.5	14
66	Interleukin-10 and Related Cytokines and Receptors. <i>Annual Review of Immunology</i> , 2004, 22, 929-979.	9.5	1,006
67	The IL-10R2 Binding Hot Spot on IL-22 is Located on the N-terminal Helix and is Dependent on N-linked Glycosylation. <i>Journal of Molecular Biology</i> , 2004, 342, 503-514.	2.0	71
68	Crystallization of Cytokine-Receptor Complexes. , 2004, 249, 81-92.		0
69	Structure of IFN- $\beta$ and Its Receptors. , 2003, , 271-273.		0
70	Comparison of Interleukin-22 and Interleukin-10 Soluble Receptor Complexes. <i>Journal of Interferon and Cytokine Research</i> , 2002, 22, 1099-1112.	0.5	95
71	Crystal structure of human cytomegalovirus IL-10 bound to soluble human IL-10R1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9404-9409.	3.3	117
72	Type I interferon structures: Possible scaffolds for the interferon-alpha receptor complex. <i>Canadian Journal of Chemistry</i> , 2002, 80, 1166-1173.	0.6	6

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73	Noncompetitive Antibody Neutralization of IL-10 Revealed by Protein Engineering and X-Ray Crystallography. <i>Structure</i> , 2002, 10, 981-987.	1.6	26
74	Structure of Interleukin-10/Interleukin-10R1 Complex: A Paradigm for Class 2 Cytokine Activation. <i>Immunologic Research</i> , 2002, 26, 303-308.	1.3	12
75	Crystal structures of alpha-helical cytokine-receptor complexes: we've only scratched the surface. <i>BioTechniques</i> , 2002, Suppl, 46-8, 50-7.	0.8	4
76	Crystal Structure of the IL-10/IL-10R1 Complex Reveals a Shared Receptor Binding Site. <i>Immunity</i> , 2001, 15, 35-46.	6.6	189
77	Purification, crystallization and preliminary X-ray diffraction of a complex between IL-10 and soluble IL-10R1. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1908-1911.	2.5	22
78	Design and Analysis of an Engineered Human Interleukin-10 Monomer. <i>Journal of Biological Chemistry</i> , 2000, 275, 13552-13557.	1.6	45
79	Design, characterization, and structure of a biologically active single-chain mutant of human IFN- $\beta$ 1 Edited by I. A. Wilson. <i>Journal of Molecular Biology</i> , 2000, 299, 169-179.	2.0	30
80	Crystal structure of ovine interferon- $\beta$ , at 2.1 Å... resolution. <i>Journal of Molecular Biology</i> , 1999, 286, 151-162.	2.0	51
81	Structural and theoretical studies suggest domain movement produces an active conformation of thymidine phosphorylase. <i>Journal of Molecular Biology</i> , 1998, 281, 285-299.	2.0	70
82	Review of Recent Developments in the Molecular Characterization of Recombinant Alfa Interferons on the 40th Anniversary of the Discovery of Interferon. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 1998, 13, 143-154.	0.7	28
83	Zinc mediated dimer of human interferon- $\beta$ revealed by X-ray crystallography. <i>Structure</i> , 1996, 4, 1453-1463.	1.6	236
84	Purification and crystallization of a complex between human interferon $\beta$ receptor (extracellular) Tj ETQq0 0 0 rgBT <sub>1.5</sub> /Overlock 10 Tf 50 3	1.5	8
85	Purification and crystallization of a complex between human interferon $\beta$ receptor (extracellular) Tj ETQq1 1 0.784314 rgBT <sub>2</sub> /Overlock	1.5	8
86	Crystallization and preliminary X-ray investigation of recombinant human interleukin 10. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 22, 187-190.	1.5	1
87	Crystal structure of a complex between interferon- $\beta$ and its soluble high-affinity receptor. <i>Nature</i> , 1995, 376, 230-235.	13.7	379
88	Crystal Structure of Interleukin 10 Reveals an Interferon .gamma.-like Fold. <i>Biochemistry</i> , 1995, 34, 12118-12125.	1.2	136
89	Comparison of four independently determined structures of human recombinant interleukin-4. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 301-310.	3.6	42
90	Drug Binding by Calmodulin: Crystal Structure of a Calmodulin-Trifluoperazine Complex. <i>Biochemistry</i> , 1994, 33, 15259-15265.	1.2	135

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91	Three-dimensional structure of recombinant human granulocyte-macrophage colony-stimulating factor. Journal of Molecular Biology, 1992, 224, 1075-1085.	2.0	138
92	CRYSTAL STRUCTURE OF RECOMBINANT HUMAN INTERLEUKIN-4. , 1992, 267, 20371-6.		113
93	THREE-DIMENSIONAL STRUCTURE OF THYMIDINE PHOSPHORYLASE FROM ESCHERICHIA COLI AT 2.8 ANGSTROMS RESOLUTION. , 1990, 265, 14016-22.		83
94	Preparation and characterization of base-sensitive destructible surfactants. Journal of Organic Chemistry, 1986, 51, 3956-3959.	1.7	14
95	Four-Color Single-Molecule Imaging with Engineered Tags Resolves the Molecular Architecture of Signaling Complexes in the Plasma Membrane. SSRN Electronic Journal, 0, , .	0.4	0