

Russell Wallis

List of Publications by Year in descending order

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74
papers

4,858
citations

66234

42
h-index

91712

69
g-index

76
all docs

76
docs citations

76
times ranked

5612
citing authors

#	ARTICLE	IF	CITATIONS
1	Site-Directed Conjugation of "Clicked" Glycopolymers To Form Glycoprotein Mimics: Binding to Mammalian Lectin and Induction of Immunological Function. <i>Journal of the American Chemical Society</i> , 2007, 129, 15156-15163.	6.6	281
2	Simultaneous Activation of Complement and Coagulation by MBL-Associated Serine Protease 2. <i>PLoS ONE</i> , 2007, 2, e623.	1.1	220
3	Sequence-Controlled Multi-Block Glycopolymers to Inhibit DC-SIGN α gp120 Binding. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4435-4439.	7.2	218
4	High-Affinity Glycopolymer Binding to Human DC-SIGN and Disruption of DC-SIGN Interactions with HIV Envelope Glycoprotein. <i>Journal of the American Chemical Society</i> , 2010, 132, 15130-15132.	6.6	180
5	Targeting of mannan-binding lectin-associated serine protease-2 confers protection from myocardial and gastrointestinal ischemia/reperfusion injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7523-7528.	3.3	174
6	The Hemopexin and O-Glycosylated Domains Tune Gelatinase B/MMP-9 Bioavailability via Inhibition and Binding to Cargo Receptors. <i>Journal of Biological Chemistry</i> , 2006, 281, 18626-18637.	1.6	163
7	Protein-Protein Interactions in Colicin E9 DNase-Immunity Protein Complexes. 1. Diffusion-Controlled Association and Femtomolar Binding for the Cognate Complex. <i>Biochemistry</i> , 1995, 34, 13743-13750.	1.2	149
8	The Lectin Pathway of Complement Activation Is a Critical Component of the Innate Immune Response to Pneumococcal Infection. <i>PLoS Pathogens</i> , 2012, 8, e1002793.	2.1	144
9	Dendritic Cell Lectin-Targeting Sentinel-like Unimolecular Glycoconjugates To Release an Anti-HIV Drug. <i>Journal of the American Chemical Society</i> , 2014, 136, 4325-4332.	6.6	137
10	Paths reunited: Initiation of the classical and lectin pathways of complement activation. <i>Immunobiology</i> , 2010, 215, 1-11.	0.8	135
11	Two Mechanisms for Mannose-binding Protein Modulation of the Activity of Its Associated Serine Proteases. <i>Journal of Biological Chemistry</i> , 2004, 279, 26058-26065.	1.6	113
12	Characterization and Membrane Assembly of the TatA Component of the Escherichia coli Twin-Arginine Protein Transport System. <i>Biochemistry</i> , 2002, 41, 13690-13697.	1.2	108
13	Interactions between mannose-binding lectin and MASPs during complement activation by the lectin pathway. <i>Immunobiology</i> , 2007, 212, 289-299.	0.8	106
14	Molecular Determinants of Oligomer Formation and Complement Fixation in Mannose-binding Proteins. <i>Journal of Biological Chemistry</i> , 1999, 274, 3580-3589.	1.6	102
15	Rationale for targeting complement in COVID-19. <i>EMBO Molecular Medicine</i> , 2020, 12, e12642.	3.3	101
16	Crystal structure of the CUB1-EGF-CUB2 region of mannose-binding protein associated serine protease-2. <i>EMBO Journal</i> , 2003, 22, 2348-2359.	3.5	100
17	Interaction of Mannose-binding Protein with Associated Serine Proteases. <i>Journal of Biological Chemistry</i> , 2000, 275, 30962-30969.	1.6	97
18	Clq, the recognition subcomponent of the classical pathway of complement, drives microglial activation. <i>Journal of Neuroscience Research</i> , 2009, 87, 644-652.	1.3	97

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19	Conformational changes in the AAA ATPase p97/p47 adaptor complex. <i>EMBO Journal</i> , 2006, 25, 1967-1976.	3.5	95
20	Stoichiometry of Complexes between Mannose-binding Protein and Its Associated Serine Proteases. <i>Journal of Biological Chemistry</i> , 2001, 276, 25894-25902.	1.6	94
21	Protein-Protein Interactions in Colicin E9 DNase-Immunity Protein Complexes. 2. Cognate and Noncognate Interactions That Span the Millimolar to Femtomolar Affinity Range. <i>Biochemistry</i> , 1995, 34, 13751-13759.	1.2	93
22	Characterization of Microfibrillar-associated Protein 4 (MFAP4) as a Tropoelastin- and Fibrillin-binding Protein Involved in Elastic Fiber Formation. <i>Journal of Biological Chemistry</i> , 2016, 291, 1103-1114.	1.6	87
23	Structural basis of the C1q/C1s interaction and its central role in assembly of the C1 complex of complement activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13916-13920.	3.3	86
24	A structural comparison of the colicin immunity proteins Im7 and Im9 gives new insights into the molecular determinants of immunity-protein specificity. <i>Biochemical Journal</i> , 1998, 333, 183-191.	1.7	74
25	Localization of the Serine Protease-binding Sites in the Collagen-like Domain of Mannose-binding Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 14065-14073.	1.6	73
26	Specificity in Protein-Protein Recognition: Conserved Im9 Residues Are the Major Determinants of Stability in the Colicin E9 DNase-Im9 Complex. <i>Biochemistry</i> , 1998, 37, 476-485.	1.2	72
27	A novel fold for the factor H-binding protein BbCRASP-1 of <i>Borrelia burgdorferi</i> . <i>Nature Structural and Molecular Biology</i> , 2005, 12, 276-277.	3.6	72
28	High glucose disrupts oligosaccharide recognition function via competitive inhibition: A potential mechanism for immune dysregulation in diabetes mellitus. <i>Immunobiology</i> , 2011, 216, 126-131.	0.8	67
29	Structure, dynamics and interactions of p47, a major adaptor of the AAA ATPase, p97. <i>EMBO Journal</i> , 2004, 23, 1463-1473.	3.5	65
30	Structural and Functional Aspects of Complement Activation by Mannose-binding Protein. <i>Immunobiology</i> , 2002, 205, 433-445.	0.8	62
31	Enzymological characterization of the nuclease domain from the bacterial toxin colicin E9 from <i>Escherichia coli</i> . <i>Biochemical Journal</i> , 1998, 334, 387-392.	1.7	61
32	Analogous Interactions in Initiating Complexes of the Classical and Lectin Pathways of Complement. <i>Journal of Immunology</i> , 2009, 182, 7708-7717.	0.4	59
33	Asymmetry adjacent to the collagen-like domain in rat liver mannose-binding protein. <i>Biochemical Journal</i> , 1997, 325, 391-400.	1.7	58
34	In vivo and in vitro characterization of overproduced colicin E9 immunity protein. <i>FEBS Journal</i> , 1992, 207, 687-695.	0.2	57
35	Structural Basis of Mannan-Binding Lectin Recognition by Its Associated Serine Protease MASP-1: Implications for Complement Activation. <i>Structure</i> , 2011, 19, 1635-1643.	1.6	55
36	Two Faces of CwIM, an Essential PknB Substrate, in <i>Mycobacterium tuberculosis</i> . <i>Cell Reports</i> , 2018, 25, 57-67.e5.	2.9	52

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37	Molecular Interactions between MASP-2, C4, and C2 and Their Activation Fragments Leading to Complement Activation via the Lectin Pathway. <i>Journal of Biological Chemistry</i> , 2007, 282, 7844-7851.	1.6	51
38	The Crystal Structure of Pneumolysin at 2.0 Å... Resolution Reveals the Molecular Packing of the Pre-pore Complex. <i>Scientific Reports</i> , 2015, 5, 13293.	1.6	50
39	Tandem overproduction and characterisation of the nuclease domain of colicin E9 and its cognate inhibitor protein Im9. <i>FEBS Journal</i> , 1994, 220, 447-454.	0.2	49
40	Molecular basis of sugar recognition by collectin-K1 and the effects of mutations associated with 3MC syndrome. <i>BMC Biology</i> , 2015, 13, 27.	1.7	49
41	Structure of the C1r-C1s interaction of the C1 complex of complement activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 768-773.	3.3	49
42	Interaction of Mannan Binding Lectin with Î±2 Macroglobulin via Exposed Oligomannose Glycans. <i>Journal of Biological Chemistry</i> , 2006, 281, 6955-6963.	1.6	43
43	Lectin pathway effector enzyme mannan-binding lectin-associated serine protease-2 can activate native complement C3 in absence of C4 and/or C2. <i>FASEB Journal</i> , 2017, 31, 2210-2219.	0.2	43
44	Immune attack on nanoparticles. <i>Nature Nanotechnology</i> , 2011, 6, 80-81.	15.6	42
45	Localization and Characterization of the Mannose-Binding Lectin (MBL)-Associated-Serine Protease-2 Binding Site in Rat Ficolin-A: Equivalent Binding Sites within the Collagenous Domains of MBLs and Ficolins. <i>Journal of Immunology</i> , 2007, 179, 455-462.	0.4	37
46	The Recognition Unit of FIBCD1 Organizes into a Noncovalently Linked Tetrameric Structure and Uses a Hydrophobic Funnel (S1) for Acetyl Group Recognition. <i>Journal of Biological Chemistry</i> , 2010, 285, 1229-1238.	1.6	37
47	Î±-Ficolin binds <i>Aspergillus fumigatus</i> leading to activation of the lectin complement pathway and modulation of lung epithelial immune responses. <i>Immunology</i> , 2015, 146, 281-291.	2.0	37
48	Impaired Secretion of Rat Mannose-Binding Protein Resulting from Mutations in the Collagen-Like Domain. <i>Journal of Immunology</i> , 2000, 165, 1403-1409.	0.4	34
49	Structure-function mapping of BbCRASP-1, the key complement factor H and FHL-1 binding protein of <i>Borrelia burgdorferi</i> . <i>International Journal of Medical Microbiology</i> , 2006, 296, 177-184.	1.5	34
50	An Aspartate-Specific Solute-Binding Protein Regulates Protein Kinase G Activity To Control Glutamate Metabolism in <i>Mycobacteria</i> . <i>MBio</i> , 2018, 9, .	1.8	32
51	Manipulation of cytokine secretion in human dendritic cells using glycopolymers with picomolar affinity for DC-SIGN. <i>Chemical Science</i> , 2017, 8, 6974-6980.	3.7	31
52	Molecular analysis of the protein-protein interaction between the E9 immunity protein and colicin E9. <i>FEBS Journal</i> , 1992, 210, 923-930.	0.2	29
53	Dominant Effects of Mutations in the Collagenous Domain of Mannose-Binding Protein. <i>Journal of Immunology</i> , 2002, 168, 4553-4558.	0.4	27
54	Identification of critical residues in the colicin E9 DNase binding region of the Im9 protein. <i>Biochemical Journal</i> , 1997, 323, 823-831.	1.7	26

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55	Mannan binding lectin-associated serine protease 1 is induced by hepatitis C virus infection and activates human hepatic stellate cells. <i>Clinical and Experimental Immunology</i> , 2013, 174, 265-273.	1.1	25
56	Near-planar Solution Structures of Mannose-binding Lectin Oligomers Provide Insight on Activation of Lectin Pathway of Complement. <i>Journal of Biological Chemistry</i> , 2012, 287, 3930-3945.	1.6	24
57	<sc>Fucose prevention of renal ischaemia/reperfusion injury in Mice. <i>FASEB Journal</i> , 2020, 34, 822-834.	0.2	21
58	Synthetic Glycopolypeptides as Potential Inhibitory Agents for Dendritic Cells and HIV-1 Trafficking. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1542-1546.	2.0	18
59	Sequential Assignments and Identification of Secondary Structure Elements of the Colicin E9 Immunity Protein in Solution by Homonuclear and Heteronuclear NMR. <i>Biochemistry</i> , 1994, 33, 12347-12355.	1.2	17
60	Carbohydrate recognition and complement activation by rat ficolin-B. <i>European Journal of Immunology</i> , 2011, 41, 214-223.	1.6	17
61	Identification of the minimal binding region of a Plasmodium falciparum IgM binding PfEMP1 domain. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 76-82.	0.5	14
62	Opsonizing properties of rat ficolin-A in the defence against Cryptococcus neoformans. <i>Immunobiology</i> , 2013, 218, 477-483.	0.8	12
63	Decoupling of Carbohydrate Binding and MASP-2 Autoactivation in Variant Mannose-Binding Lectins Associated with Immunodeficiency. <i>Journal of Immunology</i> , 2005, 175, 6846-6851.	0.4	11
64	Flexibility in Mannan-Binding Lectin-Associated Serine Proteases-1 and -2 Provides Insight on Lectin Pathway Activation. <i>Structure</i> , 2017, 25, 364-375.	1.6	10
65	Crystal structure of an inulosucrase from <i>Halalkalicoccus jeotgali</i> B3T, a halophilic archaeal strain. <i>FEBS Journal</i> , 2021, 288, 5723-5736.	2.2	8
66	Light Scattering By Optically-Trapped Vesicles Affords Unprecedented Temporal Resolution Of Lipid-Raft Dynamics. <i>Scientific Reports</i> , 2017, 7, 8589.	1.6	7
67	Formation of pre-pore complexes of pneumolysin is accompanied by a decrease in short-range order of lipid molecules throughout vesicle bilayers. <i>Scientific Reports</i> , 2020, 10, 4585.	1.6	6
68	Engineering Novel Complement Activity into a Pulmonary Surfactant Protein. <i>Journal of Biological Chemistry</i> , 2010, 285, 10546-10552.	1.6	5
69	Lysyl Hydroxylase 3 Modifies Lysine Residues to Facilitate Oligomerization of Mannan-Binding Lectin. <i>PLoS ONE</i> , 2014, 9, e113498.	1.1	4
70	Sequence-Controlled Multi-Block Glycopolymers via Cu(0) Mediated Living Radical Polymerization. <i>ACS Symposium Series</i> , 2014, , 327-348.	0.5	4
71	A molecular dynamics study of C1r and C1s dimers. Implications for the structure of the C1 complex. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, n/a-n/a.	1.5	3
72	C-Type Lectins and Collectins. , 0, , 597-611.		1

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73	Reply to Mortensen et al.: The zymogen form of complement component C1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3867-E3868.	3.3	1
74	Complement in Infections. , 0, , 85-95.		0