

Dirk M Zajonc

List of Publications by Year in descending order

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83
papers

5,129
citations

101543

36
h-index

88630

70
g-index

86
all docs

86
docs citations

86
times ranked

4507
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. <i>Nature Immunology</i> , 2006, 7, 978-986.	14.5	567
2	Invariant natural killer T cells recognize glycolipids from pathogenic Gram-positive bacteria. <i>Nature Immunology</i> , 2011, 12, 966-974.	14.5	295
3	Structure and function of a potent agonist for the semi-invariant natural killer T cell receptor. <i>Nature Immunology</i> , 2005, 6, 810-818.	14.5	288
4	T Cell Activation by Lipopeptide Antigens. <i>Science</i> , 2004, 303, 527-531.	12.6	255
5	Crystal structure of CD1a in complex with a sulfatide self antigen at a resolution of 2.15 Å... <i>Nature Immunology</i> , 2003, 4, 808-815.	14.5	218
6	The Identification of the Endogenous Ligands of Natural Killer T Cells Reveals the Presence of Mammalian α -Linked Glycosylceramides. <i>Immunity</i> , 2014, 41, 543-554.	14.3	207
7	Structural basis for CD1d presentation of a sulfatide derived from myelin and its implications for autoimmunity. <i>Journal of Experimental Medicine</i> , 2005, 202, 1517-1526.	8.5	187
8	Anatomy of CD1a α -lipid antigen complexes. <i>Nature Reviews Immunology</i> , 2005, 5, 387-399.	22.7	165
9	Design of natural killer T cell activators: Structure and function of a microbial glycosphingolipid bound to mouse CD1d. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3972-3977.	7.1	134
10	Type II natural killer T cells use features of both innate-like and conventional T cells to recognize sulfatide self antigens. <i>Nature Immunology</i> , 2012, 13, 851-856.	14.5	123
11	Molecular Mechanism of Lipopeptide Presentation by CD1a. <i>Immunity</i> , 2005, 22, 209-219.	14.3	122
12	Galectin-9 controls the therapeutic activity of 4-1BB α -targeting antibodies. <i>Journal of Experimental Medicine</i> , 2014, 211, 1433-1448.	8.5	116
13	Mechanisms for Glycolipid Antigen-Driven Cytokine Polarization by $\gamma\delta$ T Cells. <i>Journal of Immunology</i> , 2010, 184, 141-153.	0.8	108
14	Galactose-modified iNKT cell agonists stabilized by an induced fit of CD1d prevent tumour metastasis. <i>EMBO Journal</i> , 2011, 30, 2294-2305.	7.8	98
15	Cardiolipin Binds to CD1d and Stimulates CD1d-Restricted $\gamma\delta$ T Cells in the Normal Murine Repertoire. <i>Journal of Immunology</i> , 2011, 186, 4771-4781.	0.8	97
16	Crystal Structures of Mouse CD1d-iGb3 Complex and its Cognate $\gamma\delta$ T Cell Receptor Suggest a Model for Dual Recognition of Foreign and Self Glycolipids. <i>Journal of Molecular Biology</i> , 2008, 377, 1104-1116.	4.2	94
17	Lipid binding orientation within CD1d affects recognition of <i>Borrelia burgdorferi</i> antigens by NKT cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1535-1540.	7.1	91
18	Toxoplasma gondii peptide ligands open the gate of the HLA class I binding groove. <i>ELife</i> , 2016, 5, .	6.0	88

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19	Human Cytomegalovirus Glycoprotein UL141 Targets the TRAIL Death Receptors to Thwart Host Innate Antiviral Defenses. <i>Cell Host and Microbe</i> , 2013, 13, 324-335.	11.0	86
20	The VÎ±14 invariant natural killer T cell TCR forces microbial glycolipids and CD1d into a conserved binding mode. <i>Journal of Experimental Medicine</i> , 2010, 207, 2383-2393.	8.5	78
21	Structural Characterization of Mycobacterial Phosphatidylinositol Mannoside Binding to Mouse CD1d. <i>Journal of Immunology</i> , 2006, 177, 4577-4583.	0.8	72
22	Molecular basis of lipid antigen presentation by <scp>CD</scp>1d and recognition by natural killer T cells. <i>Immunological Reviews</i> , 2012, 250, 167-179.	6.0	72
23	A ligand-specific blockade of the integrin Mac-1 selectively targets pathologic inflammation while maintaining protective host-defense. <i>Nature Communications</i> , 2018, 9, 525.	12.8	72
24	Using a Combined Computational-Experimental Approach to Predict Antibody-Specific B Cell Epitopes. <i>Structure</i> , 2014, 22, 646-657.	3.3	63
25	Recognition of Lysophosphatidylcholine by Type II NKT Cells and Protection from an Inflammatory Liver Disease. <i>Journal of Immunology</i> , 2014, 193, 4580-4589.	0.8	62
26	Regulatory T Cellâ€™Mediated Suppression of Inflammation Induced by DR3 Signaling Is Dependent on Galectin-9. <i>Journal of Immunology</i> , 2017, 199, 2721-2728.	0.8	60
27	Recognition of Microbial Glycolipids by Natural Killer T Cells. <i>Frontiers in Immunology</i> , 2015, 6, 400.	4.8	58
28	Cutting Edge: Structural Basis for the Recognition of Î²-Linked Glycolipid Antigens by Invariant NKT Cells. <i>Journal of Immunology</i> , 2011, 187, 2079-2083.	0.8	57
29	Unconventional Peptide Presentation by Major Histocompatibility Complex (MHC) Class I Allele HLA-A*02:01. <i>Journal of Biological Chemistry</i> , 2017, 292, 5262-5270.	3.4	57
30	<i>Helicobacter pylori</i> Cholesteryl Î±-Glucosides Contribute to Its Pathogenicity and Immune Response by Natural Killer T Cells. <i>PLoS ONE</i> , 2013, 8, e78191.	2.5	56
31	CD1 mediated T cell recognition of glycolipids. <i>Current Opinion in Structural Biology</i> , 2007, 17, 521-529.	5.7	52
32	High-Affinity Bent Î²2-Integrin Molecules in Arresting Neutrophils Face Each Other through Binding to ICAMs In cis. <i>Cell Reports</i> , 2019, 26, 119-130.e5.	6.4	46
33	Unique Interplay between Sugar and Lipid in Determining the Antigenic Potency of Bacterial Antigens for NKT Cells. <i>PLoS Biology</i> , 2011, 9, e1001189.	5.6	43
34	Crystal structure of murine 4-1BB and its interaction with 4-1BBL support a role for galectin-9 in 4-1BB signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 1317-1329.	3.4	43
35	NKT Cell Ligand Recognition Logic: Molecular Basis for a Synaptic Duet and Transmission of Inflammatory Effectors. <i>Journal of Immunology</i> , 2011, 187, 1081-1089.	0.8	40
36	Potent Neutralization of Vaccinia Virus by Divergent Murine Antibodies Targeting a Common Site of Vulnerability in L1 Protein. <i>Journal of Virology</i> , 2014, 88, 11339-11355.	3.4	40

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37	Carbohydrate specificity of the recognition of diverse glycolipids by natural killer T cells. <i>Immunological Reviews</i> , 2009, 230, 188-200.	6.0	38
38	An in silico "in vitro Pipeline Identifying an HLA-A*02:01+ KRAS G12V+ Spliced Epitope Candidate for a Broad Tumor-Immune Response in Cancer Patients. <i>Frontiers in Immunology</i> , 2019, 10, 2572.	4.8	38
39	Glycolipids that Elicit IFN- γ -Biased Responses from Natural Killer T Cells. <i>Chemistry and Biology</i> , 2011, 18, 1620-1630.	6.0	37
40	Enhanced TCR Footprint by a Novel Glycolipid Increases NKT-Dependent Tumor Protection. <i>Journal of Immunology</i> , 2013, 191, 2916-2925.	0.8	37
41	Structure of Human Cytomegalovirus UL141 Binding to TRAIL-R2 Reveals Novel, Non-canonical Death Receptor Interactions. <i>PLoS Pathogens</i> , 2013, 9, e1003224.	4.7	36
42	Control of CD1d-restricted antigen presentation and inflammation by sphingomyelin. <i>Nature Immunology</i> , 2019, 20, 1644-1655.	14.5	35
43	Structural and Biochemical Characterization of the Vaccinia Virus Envelope Protein D8 and Its Recognition by the Antibody LA5. <i>Journal of Virology</i> , 2012, 86, 8050-8058.	3.4	33
44	CD1 assembly and the formation of CD1-antigen complexes. <i>Current Opinion in Immunology</i> , 2005, 17, 88-94.	5.5	32
45	Structural and Functional Characterization of Anti-A33 Antibodies Reveal a Potent Cross-Species Orthopoxviruses Neutralizer. <i>PLoS Pathogens</i> , 2015, 11, e1005148.	4.7	32
46	The crystal structure of avian CD1 reveals a smaller, more primordial antigen-binding pocket compared to mammalian CD1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17925-17930.	7.1	30
47	Structural Basis for the Recognition of C20:2 \pm GalCer by the Invariant Natural Killer T Cell Receptor-like Antibody L363*. <i>Journal of Biological Chemistry</i> , 2012, 287, 1269-1278.	3.4	29
48	A Novel Glycolipid Antigen for NKT Cells That Preferentially Induces IFN- γ Production. <i>Journal of Immunology</i> , 2015, 195, 924-933.	0.8	28
49	Crystal structures of the human 4-1BB receptor bound to its ligand 4-1BBL reveal covalent receptor dimerization as a potential signaling amplifier. <i>Journal of Biological Chemistry</i> , 2018, 293, 9958-9969.	3.4	27
50	Structural Basis for Lipid-Antigen Recognition in Avian Immunity. <i>Journal of Immunology</i> , 2010, 184, 2504-2511.	0.8	25
51	Structural and Functional Characterization of a Novel Nonglycosidic Type I NKT Agonist with Immunomodulatory Properties. <i>Journal of Immunology</i> , 2012, 188, 2254-2265.	0.8	24
52	Linear Epitopes in Vaccinia Virus A27 Are Targets of Protective Antibodies Induced by Vaccination against Smallpox. <i>Journal of Virology</i> , 2016, 90, 4334-4345.	3.4	23
53	T-cell activation by lipopeptide antigens. <i>Current Opinion in Immunology</i> , 2005, 17, 222-229.	5.5	22
54	The CD1 family: serving lipid antigens to T cells since the Mesozoic era. <i>Immunogenetics</i> , 2016, 68, 561-576.	2.4	21

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55	Autoreactivity to Sulfatide by Human Invariant NKT Cells. <i>Journal of Immunology</i> , 2017, 199, 97-106.	0.8	19
56	Structure–function characterization of three human antibodies targeting the vaccinia virus adhesion molecule D8. <i>Journal of Biological Chemistry</i> , 2018, 293, 390-401.	3.4	19
57	Crystal structure of the m4-1BB/4-1BBL complex reveals an unusual dimeric ligand that undergoes structural changes upon 4-1BB receptor binding. <i>Journal of Biological Chemistry</i> , 2019, 294, 1831-1845.	3.4	18
58	Restriction of Human Cytomegalovirus Infection by Galectin-9. <i>Journal of Virology</i> , 2019, 93, .	3.4	18
59	Murine Anti-vaccinia Virus D8 Antibodies Target Different Epitopes and Differ in Their Ability to Block D8 Binding to CS-E. <i>PLoS Pathogens</i> , 2014, 10, e1004495.	4.7	17
60	The bovine CD1D gene has an unusual gene structure and is expressed but cannot present $\hat{I}\pm$ -galactosylceramide with a C26 fatty acid. <i>International Immunology</i> , 2013, 25, 91-98.	4.0	16
61	Crystal Structure of Bovine CD1b3 with Endogenously Bound Ligands. <i>Journal of Immunology</i> , 2010, 185, 376-386.	0.8	15
62	Lipid and Carbohydrate Modifications of $\hat{I}\pm$ -Galactosylceramide Differently Influence Mouse and Human Type I Natural Killer T Cell Activation. <i>Journal of Biological Chemistry</i> , 2015, 290, 17206-17217.	3.4	15
63	Structure of human cytomegalovirus UL144, an HVEM orthologue, bound to the B and T cell lymphocyte attenuator. <i>Journal of Biological Chemistry</i> , 2019, 294, 10519-10529.	3.4	15
64	Crystal Structures of Bovine CD1d Reveal Altered $\hat{I}\pm$ GalCer Presentation and a Restricted A \hat{A} ™ Pocket Unable to Bind Long-Chain Glycolipids. <i>PLoS ONE</i> , 2012, 7, e47989.	2.5	14
65	Synthesis of C-5 \hat{A} ™ and C-6 \hat{A} ™-modified $\hat{I}\pm$ -GalCer analogues as iNKT-cell agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3175-3182.	3.0	14
66	4 \hat{A} ™-alkylated $\hat{I}\pm$ -Galactosylceramide Analogues as iNKT-Cell Antigens: Synthetic, Biological, and Structural Studies. <i>ChemMedChem</i> , 2019, 14, 147-168.	3.2	14
67	CD1, MR1, NKT, and MAIT: evolution and origins of non-peptidic antigen recognition by T lymphocytes. <i>Immunogenetics</i> , 2016, 68, 489-490.	2.4	13
68	Structure of an $\hat{I}\pm$ -Helical Peptide and Lipopeptide Bound to the Nonclassical Major Histocompatibility Complex (MHC) Class I Molecule CD1d*. <i>Journal of Biological Chemistry</i> , 2016, 291, 10677-10683.	3.4	10
69	Galactosylsphingamides: new $\hat{I}\pm$ -GalCer analogues to probe the F \hat{A} ™-pocket of CD1d. <i>Scientific Reports</i> , 2017, 7, 4276.	3.3	10
70	Self \hat{A} ™-glycerophospholipids activate murine phospholipid \hat{A} ™-reactive T \hat{A} ™ cells and inhibit iNKT \hat{A} ™ cell activation by competing with ligands for CD1d loading. <i>European Journal of Immunology</i> , 2019, 49, 242-254.	2.9	7
71	Unconventional Peptide Presentation by Classical MHC Class I and Implications for T and NK Cell Activation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7561.	4.1	6
72	Crystal structure of Qa-1a with bound Qa-1 determinant modifier peptide. <i>PLoS ONE</i> , 2017, 12, e0182296.	2.5	6

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73	The structure of cytomegalovirus immune modulator UL141 highlights structural Ig-fold versatility for receptor binding. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 851-862.	2.5	5
74	Structure-Function Implications of the Ability of Monoclonal Antibodies Against α -Galactosylceramide-CD1d Complex to Recognize β -Mannosylceramide Presentation by CD1d. <i>Frontiers in Immunology</i> , 2019, 10, 2355.	4.8	5
75	Characterization of murine antibody responses to vaccinia virus envelope protein A14 reveals an immunodominant antigen lacking of effective neutralization targets. <i>Virology</i> , 2018, 518, 284-292.	2.4	2
76	Evolution of differential α BB signaling in Human and Murine immune system. <i>FASEB Journal</i> , 2019, 33, 461.3.	0.5	2
77	A T cell glimpse of glycolipids. <i>Immunology and Cell Biology</i> , 2014, 92, 99-100.	2.3	1
78	CD1c caves in on lipids. <i>Nature Immunology</i> , 2018, 19, 322-324.	14.5	1
79	A molecular switch in mouse CD1d modulates natural killer T cell activation by α -galactosylsphingamides. <i>Journal of Biological Chemistry</i> , 2019, 294, 14345-14356.	3.4	1
80	Catching a complex for optimal signaling. <i>Journal of Biological Chemistry</i> , 2019, 294, 13887-13888.	3.4	1
81	Galactose modified iNKT cell agonists stabilised by a novel structural modification of CD1d lead to marked Th1 polarisation in vivo. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, A53-A53.	0.9	0
82	Structural basis of NKT cell inhibition using the T-cell receptor-blocking anti-CD1d antibody 1B1. <i>Journal of Biological Chemistry</i> , 2019, 294, 12947-12956.	3.4	0
83	Molecular Characterization of the Native (Non-Linked) CD160-HVEM Protein Complex Revealed by Initial Crystallographic Analysis. <i>Crystals</i> , 2021, 11, 820.	2.2	0