

Dirk M Zajonc

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

4,321
citations

33
h-index

65
g-index

86
ext. papers

4,824
ext. citations

9.1
avg, IF

5.05
L-index

#	Paper	IF	Citations
81	Natural killer T cells recognize diacylglycerol antigens from pathogenic bacteria. <i>Nature Immunology</i> , 2006 , 7, 978-86	19.1	521
80	Structure and function of a potent agonist for the semi-invariant natural killer T cell receptor. <i>Nature Immunology</i> , 2005 , 6, 810-8	19.1	267
79	Invariant natural killer T cells recognize glycolipids from pathogenic Gram-positive bacteria. <i>Nature Immunology</i> , 2011 , 12, 966-74	19.1	259
78	T cell activation by lipopeptide antigens. <i>Science</i> , 2004 , 303, 527-31	33.3	220
77	Crystal structure of CD1a in complex with a sulfatide self antigen at a resolution of 2.15 Å. <i>Nature Immunology</i> , 2003 , 4, 808-15	19.1	201
76	The identification of the endogenous ligands of natural killer T cells reveals the presence of mammalian linked glycosylceramides. <i>Immunity</i> , 2014 , 41, 543-54	32.3	170
75	Structural basis for CD1d presentation of a sulfatide derived from myelin and its implications for autoimmunity. <i>Journal of Experimental Medicine</i> , 2005 , 202, 1517-26	16.6	170
74	Anatomy of CD1-lipid antigen complexes. <i>Nature Reviews Immunology</i> , 2005 , 5, 387-99	36.5	154
73	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, 3972-7	11.5	127
72	Molecular mechanism of lipopeptide presentation by CD1a. <i>Immunity</i> , 2005 , 22, 209-19	32.3	112
71	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, 851-6	19.1	102
70	Mechanisms for glycolipid antigen-driven cytokine polarization by Valpha14i NKT cells. <i>Journal of Immunology</i> , 2010 , 184, 141-53	5.3	100
69	Galactose-modified iNKT cell agonists stabilized by an induced fit of CD1d prevent tumour metastasis. <i>EMBO Journal</i> , 2011 , 30, 2294-305	13	90
68	Crystal structures of mouse CD1d-iGb3 complex and its cognate Valpha14 T cell receptor suggest a model for dual recognition of foreign and self glycolipids. <i>Journal of Molecular Biology</i> , 2008 , 377, 1104-16	6.5	88
67	Cardiolipin binds to CD1d and stimulates CD1d-restricted T cells in the normal murine repertoire. <i>Journal of Immunology</i> , 2011 , 186, 4771-81	5.3	87
66	Galectin-9 controls the therapeutic activity of 4-1BB-targeting antibodies. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1433-48	16.6	86
65	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, 1535-40	11.5	84

64	The V β 4 invariant natural killer T cell TCR forces microbial glycolipids and CD1d into a conserved binding mode. <i>Journal of Experimental Medicine</i> , 2010 , 207, 2383-93	16.6	77
63	Human cytomegalovirus glycoprotein UL141 targets the TRAIL death receptors to thwart host innate antiviral defenses. <i>Cell Host and Microbe</i> , 2013 , 13, 324-35	23.4	75
62	Structural characterization of mycobacterial phosphatidylinositol mannoside binding to mouse CD1d. <i>Journal of Immunology</i> , 2006 , 177, 4577-83	5.3	65
61	Molecular basis of lipid antigen presentation by CD1d and recognition by natural killer T cells. <i>Immunological Reviews</i> , 2012 , 250, 167-79	11.3	61
60	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	17.4	57
59	Toxoplasma gondii peptide ligands open the gate of the HLA class I binding groove. <i>ELife</i> , 2016 , 5,	8.9	55
58	Cutting edge: structural basis for the recognition of linked glycolipid antigens by invariant NKT cells. <i>Journal of Immunology</i> , 2011 , 187, 2079-83	5.3	53
57	Using a combined computational-experimental approach to predict antibody-specific B cell epitopes. <i>Structure</i> , 2014 , 22, 646-57	5.2	50
56	CD1 mediated T cell recognition of glycolipids. <i>Current Opinion in Structural Biology</i> , 2007 , 17, 521-9	8.1	49
55	Recognition of Microbial Glycolipids by Natural Killer T Cells. <i>Frontiers in Immunology</i> , 2015 , 6, 400	8.4	47
54	Recognition of lysophosphatidylcholine by type II NKT cells and protection from an inflammatory liver disease. <i>Journal of Immunology</i> , 2014 , 193, 4580-9	5.3	43
53	Helicobacter pylori cholesteryl glucosides contribute to its pathogenicity and immune response by natural killer T cells. <i>PLoS ONE</i> , 2013 , 8, e78191	3.7	43
52	Unique interplay between sugar and lipid in determining the antigenic potency of bacterial antigens for NKT cells. <i>PLoS Biology</i> , 2011 , 9, e1001189	9.7	42
51	NKT cell ligand recognition logic: molecular basis for a synaptic duet and transmission of inflammatory effectors. <i>Journal of Immunology</i> , 2011 , 187, 1081-9	5.3	37
50	Unconventional Peptide Presentation by Major Histocompatibility Complex (MHC) Class I Allele HLA-A*02:01: BREAKING CONFINEMENT. <i>Journal of Biological Chemistry</i> , 2017 , 292, 5262-5270	5.4	36
49	Carbohydrate specificity of the recognition of diverse glycolipids by natural killer T cells. <i>Immunological Reviews</i> , 2009 , 230, 188-200	11.3	36
48	Glycolipids that elicit IFN- γ -biased responses from natural killer T cells. <i>Chemistry and Biology</i> , 2011 , 18, 1620-30		33
47	Structure of human cytomegalovirus UL141 binding to TRAIL-R2 reveals novel, non-canonical death receptor interactions. <i>PLoS Pathogens</i> , 2013 , 9, e1003224	7.6	32

46	Enhanced TCR footprint by a novel glycolipid increases NKT-dependent tumor protection. <i>Journal of Immunology</i> , 2013 , 191, 2916-25	5.3	32
45	CD1 assembly and the formation of CD1-antigen complexes. <i>Current Opinion in Immunology</i> , 2005 , 17, 88-94	7.8	29
44	Regulatory T Cell-Mediated Suppression of Inflammation Induced by DR3 Signaling Is Dependent on Galectin-9. <i>Journal of Immunology</i> , 2017 , 199, 2721-2728	5.3	28
43	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, 17925-30	11.5	28
42	High-Affinity Bent Integrin Molecules in Arresting Neutrophils Face Each Other through Binding to ICAMs In cis. <i>Cell Reports</i> , 2019 , 26, 119-130.e5	10.6	28
41	An Pipeline Identifying an HLA-A02:01 KRAS G12V Spliced Epitope Candidate for a Broad Tumor-Immune Response in Cancer Patients. <i>Frontiers in Immunology</i> , 2019 , 10, 2572	8.4	26
40	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	5.4	24
39	A Novel Glycolipid Antigen for NKT Cells That Preferentially Induces IFN- γ Production. <i>Journal of Immunology</i> , 2015 , 195, 924-33	5.3	23
38	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, 11339-55	6.6	22
37	Structural and functional characterization of a novel nonglycosidic type I NKT agonist with immunomodulatory properties. <i>Journal of Immunology</i> , 2012 , 188, 2254-65	5.3	22
36	Structural basis for lipid-antigen recognition in avian immunity. <i>Journal of Immunology</i> , 2010 , 184, 2504-11	5.1	21
35	Structural basis for the recognition of C20:2-GalCer by the invariant natural killer T cell receptor-like antibody L363. <i>Journal of Biological Chemistry</i> , 2012 , 287, 1269-78	5.4	21
34	T-cell activation by lipopeptide antigens. <i>Current Opinion in Immunology</i> , 2005 , 17, 222-9	7.8	20
33	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, 8050-8	6.6	18
32	The CD1 family: serving lipid antigens to T cells since the Mesozoic era. <i>Immunogenetics</i> , 2016 , 68, 561-76	6.2	18
31	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	5.4	16
30	Control of CD1d-restricted antigen presentation and inflammation by sphingomyelin. <i>Nature Immunology</i> , 2019 , 20, 1644-1655	19.1	16
29	The bovine CD1D gene has an unusual gene structure and is expressed but cannot present β -galactosylceramide with a C26 fatty acid. <i>International Immunology</i> , 2013 , 25, 91-8	4.9	15

28	Crystal structure of bovine CD1b3 with endogenously bound ligands. <i>Journal of Immunology</i> , 2010 , 185, 376-86	5.3	15
27	Lipid and Carbohydrate Modifications of β Galactosylceramide Differently Influence Mouse and Human Type I Natural Killer T Cell Activation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17206-17	5.4	14
26	Crystal structures of bovine CD1d reveal altered β GalCer presentation and a restricted AR-pocket unable to bind long-chain glycolipids. <i>PLoS ONE</i> , 2012 , 7, e47989	3.7	13
25	Restriction of Human Cytomegalovirus Infection by Galectin-9. <i>Journal of Virology</i> , 2019 , 93,	6.6	13
24	Autoreactivity to Sulfatide by Human Invariant NKT Cells. <i>Journal of Immunology</i> , 2017 , 199, 97-106	5.3	11
23	Structural and Functional Characterization of Anti-A33 Antibodies Reveal a Potent Cross-Species Orthopoxviruses Neutralizer. <i>PLoS Pathogens</i> , 2015 , 11, e1005148	7.6	11
22	Synthesis of C-5' and C-6'-modified β GalCer analogues as iNKT-cell agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3175-82	3.4	10
21	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	6.6	10
20	4"-O-Alkylated β Galactosylceramide Analogues as iNKT-Cell Antigens: Synthetic, Biological, and Structural Studies. <i>ChemMedChem</i> , 2019 , 14, 147-168	3.7	10
19	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	5.4	10
18	Structure of an β Helical Peptide and Lipopeptide Bound to the Nonclassical Major Histocompatibility Complex (MHC) Class I Molecule CD1d. <i>Journal of Biological Chemistry</i> , 2016 , 291, 10677-83	5.4	9
17	Galactosylsphingamides: new β GalCer analogues to probe the FR-pocket of CD1d. <i>Scientific Reports</i> , 2017 , 7, 4276	4.9	8
16	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	7.6	7
15	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, 851-62		5
14	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	5.4	4
13	Structure-Function Implications of the Ability of Monoclonal Antibodies Against β Galactosylceramide-CD1d Complex to Recognize β Mannosylceramide Presentation by CD1d. <i>Frontiers in Immunology</i> , 2019 , 10, 2355	8.4	4
12	Crystal structure of Qa-1a with bound Qa-1 determinant modifier peptide. <i>PLoS ONE</i> , 2017 , 12, e0182296	5.7	4
11	Self-glycerophospholipids activate murine phospholipid-reactive T γ cells and inhibit iNKT cell activation by competing with ligands for CD1d loading. <i>European Journal of Immunology</i> , 2019 , 49, 242-254	6.1	3

10	Catching a complex for optimal signaling. <i>Journal of Biological Chemistry</i> , 2019 , 294, 13887-13888	5.4	1
9	CD1c caves in on lipids. <i>Nature Immunology</i> , 2018 , 19, 322-324	19.1	1
8	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	3.6	1
7	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,	6.3	1
6	Structure-function characterization of three human antibodies targeting the vaccinia virus adhesion molecule D8. <i>Journal of Biological Chemistry</i> , 2018 , 293, 390-401	5.4	1
5	Evolution of differential 4-1BB signaling in Human and Murine immune system. <i>FASEB Journal</i> , 2019 , 33, 461.3	0.9	0
4	A molecular switch in mouse CD1d modulates natural killer T cell activation by β -galactosylsphingamides. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14345-14356	5.4	
3	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	5.4	
2	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	2.4	
1	Molecular Characterization of the Native (Non-Linked) CD160 β VEM Protein Complex Revealed by Initial Crystallographic Analysis. <i>Crystals</i> , 2021 , 11, 820	2.3	