Ildiko Van Rhijn

List of Publications by Year
in descending order

68 papers	2,910 citations	172457 29 h-index	182427 51 g-index
69 all docs	69 docs citations	69 times ranked	2643 citing authors

#	Article	IF	Citations
1	CD1a-autoreactive T cells are a normal component of the human Î±Î² T cell repertoire. Nature Immunology, 2010, 11, 1102-1109.	14.5	221
2	A conserved human T cell population targets mycobacterial antigens presented by CD1b. Nature Immunology, 2013, 14, 706-713.	14.5	187
3	CD1a-autoreactive T cells recognize natural skin oils that function as headless antigens. Nature Immunology, 2014, 15, 177-185.	14.5	141
4	CD1b tetramers bind Î±Î² T cell receptors to identify a mycobacterial glycolipid-reactive T cell repertoire in humans. Journal of Experimental Medicine, 2011, 208, 1741-1747.	8.5	132
5	Lipid and small-molecule display by CD1 and MR1. Nature Reviews Immunology, 2015, 15, 643-654.	22.7	120
6	CD1d-restricted T cell activation by nonlipidic small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13578-13583.	7.1	91
7	RISK6, a 6-gene transcriptomic signature of TB disease risk, diagnosis and treatment response. Scientific Reports, 2020, 10, 8629.	3.3	90
8	The molecular basis for Mucosal-Associated Invariant T cell recognition of MR1 proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1771-8.	7.1	85
9	Human autoreactive T cells recognize CD1b and phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 380-385.	7.1	85
10	Donor Unrestricted T Cells: A Shared Human T Cell Response. Journal of Immunology, 2015, 195, 1927-1932.	0.8	77
11	<scp>CD</scp>1 and mycobacterial lipids activate human T cells. Immunological Reviews, 2015, 264, 138-153.	6.0	72
12	Cutting Edge: CD1a Tetramers and Dextramers Identify Human Lipopeptideâ€“Specific T Cells Ex Vivo. Journal of Immunology, 2013, 191, 4499-4503.	0.8	70
13	The Bovine CD1 Family Contains Group 1 CD1 Proteins, but No Functional CD1d. Journal of Immunology, 2006, 176, 4888-4893.	0.8	64
14	TCR Bias and Affinity Define Two Compartments of the CD1bâ€“Glycolipid-Specific T Cell Repertoire. Journal of Immunology, 2014, 192, 4054-4060.	0.8	64
15	Bovine tuberculosis as a model for human tuberculosis: advantages over small animal models. Microbes and Infection, 2008, 10, 711-715.	1.9	59
16	T cell receptor recognition of CD1b presenting a mycobacterial glycolipid. Nature Communications, 2016, 7, 13257.	12.8	59
17	CD1b-autoreactive T cells contribute to hyperlipidemia-induced skin inflammation in mice. Journal of Clinical Investigation, 2017, 127, 2339-2352.	8.2	59
18	Targeted Delivery of Mycobacterial Antigens to Human Dendritic Cells via Siglec-7 Induces Robust T Cell Activation. Journal of Immunology, 2014, 193, 1560-1566.	0.8	54

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19	T cell autoreactivity directed toward CD1c itself rather than toward carried self lipids. Nature Immunology, 2018, 19, 397-406.	14.5	52
20	Multimodally profiling memory T cells from a tuberculosis cohort identifies cell state associations with demographics, environment and disease. Nature Immunology, 2021, 22, 781-793.	14.5	52
21	Functional CD1d and/or NKT cell invariant chain transcript in horse, pig, African elephant and guinea pig, but not in ruminants. Molecular Immunology, 2009, 46, 1424-1431.	2.2	51
22	Role of lipid trimming and CD1 groove size in cellular antigen presentation. EMBO Journal, 2006, 25, 2989-2999.	7.8	50
23	CD1bâ€mycolic acid tetramers demonstrate Tâ€cell fine specificity for mycobacterial lipid tails. European Journal of Immunology, 2017, 47, 1525-1534.	2.9	49
24	CD1c bypasses lysosomes to present a lipopeptide antigen with 12 amino acids. Journal of Experimental Medicine, 2009, 206, 1409-1422.	8.5	47
25	CD1a, CD1b, and CD1c in Immunity Against Mycobacteria. Advances in Experimental Medicine and Biology, 2013, 783, 181-197.	1.6	46
26	Conservation of mucosal associated invariant T (MAIT) cells and the MR1 restriction element in ruminants, and abundance of MAIT cells in spleen. Veterinary Research, 2010, 41, 62.	3.0	45
27	The evolved functions of CD1 during infection. Current Opinion in Immunology, 2009, 21, 397-403.	5.5	43
28	Human T cell response to CD1a and contact dermatitis allergens in botanical extracts and commercial skin care products. Science Immunology, 2020, 5, .	11.9	42
29	A molecular basis of human T cell receptor autoreactivity toward self-phospholipids. Science Immunology, 2017, 2, .	11.9	39
30	Î³Î´ T Cell Homing to Skin and Migration to Skin-Draining Lymph Nodes Is CCR7 Independent. Journal of Immunology, 2012, 188, 578-584.	0.8	38
31	Human Î³Î´ T cells recognize CD1b by two distinct mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22944-22952.	7.1	34
32	A T-cell receptor escape channel allows broad T-cell response to CD1b and membrane phospholipids. Nature Communications, 2019, 10, 56.	12.8	31
33	Human skin is colonized by T cells that recognize CD1a independently of lipid. Journal of Clinical Investigation, 2021, 131, .	8.2	31
34	Low crossâ€reactivity of Tâ€cell responses against lipids from Mycobacterium bovis and M. avium paratuberculosis during natural infection. European Journal of Immunology, 2009, 39, 3031-3041.	2.9	29
35	Massive, sustained Î³Î´ T cell migration from the bovine skin in vivo. Journal of Leukocyte Biology, 2007, 81, 968-973.	3.3	28
36	Two canine CD1a proteins are differentially expressed in skin. Immunogenetics, 2008, 60, 315-324.	2.4	28

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37	Mammalian CD1 and MR1 genes. Immunogenetics, 2016, 68, 515-523.	2.4	26
38	CD1a selectively captures endogenous cellular lipids that broadly block T cell response. Journal of Experimental Medicine, 2021, 218, .	8.5	24
39	Discovery of Invariant T Cells by Next-Generation Sequencing of the Human TCR Î±-Chain Repertoire. Journal of Immunology, 2014, 193, 5338-5344.	0.8	23
40	CD1b Tetramers Identify T Cells that Recognize Natural and Synthetic Diacylated Sulfoglycolipids from Mycobacterium tuberculosis. Cell Chemical Biology, 2018, 25, 392-402.e14.	5.2	23
41	T-cell activation by lipopeptide antigens. Current Opinion in Immunology, 2005, 17, 222-229.	5.5	22
42	The bovine T cell receptor alpha/delta locus contains over 400 V genes and encodes V genes without CDR2. Immunogenetics, 2009, 61, 541-549.	2.4	22
43	Lipoproteins Are Major Targets of the Polyclonal Human T Cell Response to Mycobacterium tuberculosis. Journal of Immunology, 2013, 190, 278-284.	0.8	22
44	CD1b Tetramers Broadly Detect T Cells That Correlate With Mycobacterial Exposure but Not Tuberculosis Disease State. Frontiers in Immunology, 2020, 11, 199.	4.8	22
45	Highly diverse TCR Î´ chain repertoire in bovine tissues due to the use of up to four D segments per Î´ chain. Molecular Immunology, 2007, 44, 3155-3161.	2.2	21
46	Discovery of Salmonella trehalose phospholipids reveals functional convergence with mycobacteria. Journal of Experimental Medicine, 2019, 216, 757-771.	8.5	20
47	Peripheral Blood Mucosal-Associated Invariant T Cells in Tuberculosis Patients and Healthy Mycobacterium tuberculosis-Exposed Controls. Journal of Infectious Diseases, 2020, 222, 995-1007.	4.0	19
48	Expansion of human gammadelta T cells after in vitro stimulation with Campylobacter jejuni. International Immunology, 2003, 15, 373-382.	4.0	18
49	The bovine CD1D gene has an unusual gene structure and is expressed but cannot present Î±-galactosylceramide with a C26 fatty acid. International Immunology, 2013, 25, 91-98.	4.0	16
50	Crystal Structure of Bovine CD1b3 with Endogenously Bound Ligands. Journal of Immunology, 2010, 185, 376-386.	0.8	15
51	Total Synthesis of a Mycolic Acid from Mycobacterium tuberculosis. Angewandte Chemie - International Edition, 2020, 59, 7555-7560.	13.8	14
52	Total Synthesis of Mycobacterium tuberculosis Dideoxymycobactinâ€838 and Stereoisomers: Diverse CD1aâ€Restricted T Cells Display a Common Hierarchy of Lipopeptide Recognition. Chemistry - A European Journal, 2017, 23, 1694-1701.	3.3	13
53	Atypical sideways recognition of CD1a by autoreactive Î³Î´ T cell receptors. Nature Communications, 2022, 13, .	12.8	12
54	Expression Patterns of Bovine CD1 In Vivo and Assessment of the Specificities of the Anti-Bovine CD1 Antibodies. PLoS ONE, 2015, 10, e0121923.	2.5	11

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55	Molecular recognition of microbial lipid-based antigens by T cells. Cellular and Molecular Life Sciences, 2018, 75, 1623-1639.	5.4	10
56	CD1b presents self and Borrelia burgdorferi diacylglycerols to human T cells. European Journal of Immunology, 2019, 49, 737-746.	2.9	10
57	A TCR Î²-Chain Motif Biases toward Recognition of Human CD1 Proteins. Journal of Immunology, 2019, 203, 3395-3406.	0.8	10
58	Asymmetric Total Synthesis of Mycobacterial Diacyl Trehaloses Demonstrates a Role for Lipid Structure in Immunogenicity. ACS Chemical Biology, 2020, 15, 1835-1841.	3.4	10
59	CampylobacterDNA Is Present in Circulating Myelomonocytic Cells of Healthy Persons and in Persons with Guillainâ€BarrÃ© Syndrome. Journal of Infectious Diseases, 2002, 185, 262-265.	4.0	9
60	Benzofuran sulfonates and small self-lipid antigens activate type II NKT cells via CD1d. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	8
61	Lion (Panthera leo) and cheetah (Acinonyx jubatus) IFN-Î³ sequences. Veterinary Immunology and Immunopathology, 2010, 134, 296-298.	1.2	7
62	Total Synthesis of an Immunogenic Trehalose Phospholipid from Salmonella Typhi and Elucidation of Its sn-Regiochemistry by Mass Spectrometry. Organic Letters, 2019, 21, 5126-5131.	4.6	7
63	Synthetic mycobacterial diacyl trehaloses reveal differential recognition by human T cell receptors and the C-type lectin Mincle. Scientific Reports, 2021, 11, 2010.	3.3	7
64	Immune response of cattle immunized with a conjugate of the glycolipid glucose monomycolate and protein. Veterinary Immunology and Immunopathology, 2011, 142, 265-270.	1.2	5
65	Rational design of a hydrolysis-resistant mycobacterial phosphoglycolipid antigen presented by CD1c to T cells. Journal of Biological Chemistry, 2021, 297, 101197.	3.4	5
66	CD1 and MR1 recognition by human Î³Î´ T cells. Molecular Immunology, 2021, 133, 95-100.	2.2	4
67	Dual TCR-Î± Expression on Mucosal-Associated Invariant T Cells as a Potential Confounder of TCR Interpretation. Journal of Immunology, 2022, 208, 1389-1395.	0.8	2
68	Total Synthesis of a Mycolic Acid from Mycobacterium tuberculosis. Angewandte Chemie, 2020, 132, 7625-7630.	2.0	1