

# Sandra J Van Vliet

## List of Publications by Citations

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99  
papers

10,737  
citations

38  
h-index

103  
g-index

108  
ext. papers

11,821  
ext. citations

7.9  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
99	DC-SIGN, a dendritic cell-specific HIV-1-binding protein that enhances trans-infection of T cells. <i>Cell</i> , <b>2000</b> , 100, 587-97	56.2	1976
98	Identification of DC-SIGN, a novel dendritic cell-specific ICAM-3 receptor that supports primary immune responses. <i>Cell</i> , <b>2000</b> , 100, 575-85	56.2	1408
97	Mycobacteria target DC-SIGN to suppress dendritic cell function. <i>Journal of Experimental Medicine</i> , <b>2003</b> , 197, 7-17	16.6	885
96	The dendritic cell-specific adhesion receptor DC-SIGN internalizes antigen for presentation to T cells. <i>Journal of Immunology</i> , <b>2002</b> , 168, 2118-26	5.3	512
95	DC-SIGN-ICAM-2 interaction mediates dendritic cell trafficking. <i>Nature Immunology</i> , <b>2000</b> , 1, 353-7	19.1	419
94	Self- and nonself-recognition by C-type lectins on dendritic cells. <i>Annual Review of Immunology</i> , <b>2004</b> , 22, 33-54	34.7	413
93	Cutting edge: carbohydrate profiling identifies new pathogens that interact with dendritic cell-specific ICAM-3-grabbing nonintegrin on dendritic cells. <i>Journal of Immunology</i> , <b>2003</b> , 170, 1635-9	5.3	373
92	A dendritic cell-specific intercellular adhesion molecule 3-grabbing nonintegrin (DC-SIGN)-related protein is highly expressed on human liver sinusoidal endothelial cells and promotes HIV-1 infection. <i>Journal of Experimental Medicine</i> , <b>2001</b> , 193, 671-8	16.6	300
91	<i>Helicobacter pylori</i> modulates the T helper cell 1/T helper cell 2 balance through phase-variable interaction between lipopolysaccharide and DC-SIGN. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 200, 979-90	16.6	259
90	The dendritic cell-specific C-type lectin DC-SIGN is a receptor for <i>Schistosoma mansoni</i> egg antigens and recognizes the glycan antigen Lewis x. <i>Glycobiology</i> , <b>2003</b> , 13, 471-8	5.8	246
89	<i>Schistosoma mansoni</i> soluble egg antigens are internalized by human dendritic cells through multiple C-type lectins and suppress TLR-induced dendritic cell activation. <i>Molecular Immunology</i> , <b>2007</b> , 44, 2605-15	4.3	208
88	A biliary HCO <sub>3</sub> <sup>-</sup> umbrella constitutes a protective mechanism against bile acid-induced injury in human cholangiocytes. <i>Hepatology</i> , <b>2012</b> , 55, 173-83	11.2	200
87	Carbohydrate profiling reveals a distinctive role for the C-type lectin MGL in the recognition of helminth parasites and tumor antigens by dendritic cells. <i>International Immunology</i> , <b>2005</b> , 17, 661-9	4.9	175
86	Marginal zone macrophages express a murine homologue of DC-SIGN that captures blood-borne antigens in vivo. <i>Blood</i> , <b>2002</b> , 100, 2908-16	2.2	150
85	Galactosaminogalactan, a new immunosuppressive polysaccharide of <i>Aspergillus fumigatus</i> . <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002372	7.6	149
84	Regulation of effector T cells by antigen-presenting cells via interaction of the C-type lectin MGL with CD45. <i>Nature Immunology</i> , <b>2006</b> , 7, 1200-8	19.1	147
83	Identification of different binding sites in the dendritic cell-specific receptor DC-SIGN for intercellular adhesion molecule 3 and HIV-1. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 11314-20	5.4	145

82	Subset of DC-SIGN(+) dendritic cells in human blood transmits HIV-1 to T lymphocytes. <i>Blood</i> , <b>2002</b> , 100, 1780-6	2.2	136
81	Innate signaling and regulation of Dendritic cell immunity. <i>Current Opinion in Immunology</i> , <b>2007</b> , 19, 435-48	4.8	131
80	The actin cytoskeleton regulates LFA-1 ligand binding through avidity rather than affinity changes. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 26869-77	5.4	126
79	Dendritic cells and C-type lectin receptors: coupling innate to adaptive immune responses. <i>Immunology and Cell Biology</i> , <b>2008</b> , 86, 580-7	5	122
78	Sweet preferences of MGL: carbohydrate specificity and function. <i>Trends in Immunology</i> , <b>2008</b> , 29, 83-90	14.4	121
77	The C-type lectin MGL expressed by dendritic cells detects glycan changes on MUC1 in colon carcinoma. <i>Cancer Immunology, Immunotherapy</i> , <b>2007</b> , 56, 1225-36	7.4	100
76	High Frequency of Adhesion Defects in B-Lineage Acute Lymphoblastic Leukemia. <i>Blood</i> , <b>1999</b> , 94, 754-764	6.4	93
75	Trichuris suis-induced modulation of human dendritic cell function is glycan-mediated. <i>International Journal for Parasitology</i> , <b>2013</b> , 43, 191-200	4.3	86
74	Molecular basis of the differences in binding properties of the highly related C-type lectins DC-SIGN and L-SIGN to Lewis X trisaccharide and Schistosoma mansoni egg antigens. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 33161-7	5.4	82
73	N-glycosylated proteins and distinct lipooligosaccharide glycoforms of Campylobacter jejuni target the human C-type lectin receptor MGL. <i>Cellular Microbiology</i> , <b>2009</b> , 11, 1768-81	3.9	77
72	Dynamic populations of dendritic cell-specific ICAM-3 grabbing nonintegrin-positive immature dendritic cells and liver/lymph node-specific ICAM-3 grabbing nonintegrin-positive endothelial cells in the outer zones of the paracortex of human lymph nodes. <i>American Journal of Pathology</i> , <b>2004</b> , 164, 1587-95	5.8	77
71	Characterization of murine MGL1 and MGL2 C-type lectins: distinct glycan specificities and tumor binding properties. <i>Molecular Immunology</i> , <b>2009</b> , 46, 1240-9	4.3	73
70	Neisseria meningitidis expressing lgtB lipopolysaccharide targets DC-SIGN and modulates dendritic cell function. <i>Cellular Microbiology</i> , <b>2006</b> , 8, 316-25	3.9	73
69	MGL signaling augments TLR2-mediated responses for enhanced IL-10 and TNF- $\beta$ secretion. <i>Journal of Leukocyte Biology</i> , <b>2013</b> , 94, 315-23	6.5	68
68	Differential regulation of C-type lectin expression on tolerogenic dendritic cell subsets. <i>Immunobiology</i> , <b>2006</b> , 211, 577-85	3.4	67
67	Campylobacter jejuni lipooligosaccharides modulate dendritic cell-mediated T cell polarization in a sialic acid linkage-dependent manner. <i>Infection and Immunity</i> , <b>2011</b> , 79, 2681-9	3.7	66
66	Fucosylated Antigens in Cancer: An Alliance toward Tumor Progression, Metastasis, and Resistance to Chemotherapy. <i>Frontiers in Oncology</i> , <b>2018</b> , 8, 39	5.3	60
65	Variation of Neisseria gonorrhoeae lipooligosaccharide directs dendritic cell-induced T helper responses. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000625	7.6	57

64	Cross-presentation through langerin and DC-SIGN targeting requires different formulations of glycan-modified antigens. <i>Journal of Controlled Release</i> , <b>2015</b> , 203, 67-76	11.7	53
63	N-glycosylation Profiling of Colorectal Cancer Cell Lines Reveals Association of Fucosylation with Differentiation and Caudal Type Homebox 1 (CDX1)/Villin mRNA Expression. <i>Molecular and Cellular Proteomics</i> , <b>2016</b> , 15, 124-40	7.6	53
62	MGL-mediated internalization and antigen presentation by dendritic cells: a role for tyrosine-5. <i>European Journal of Immunology</i> , <b>2007</b> , 37, 2075-81	6.1	46
61	Novel insights into the immunomodulatory role of the dendritic cell and macrophage-expressed C-type lectin MGL. <i>Immunobiology</i> , <b>2015</b> , 220, 185-92	3.4	38
60	The C-type lectin macrophage galactose-type lectin impedes migration of immature APCs. <i>Journal of Immunology</i> , <b>2008</b> , 181, 3148-55	5.3	37
59	Specific glycan elements determine differential binding of individual egg glycoproteins of the human parasite <i>Schistosoma mansoni</i> by host C-type lectin receptors. <i>International Journal for Parasitology</i> , <b>2012</b> , 42, 269-77	4.3	34
58	DCIR interacts with ligands from both endogenous and pathogenic origin. <i>Immunology Letters</i> , <b>2014</b> , 158, 33-41	4.1	33
57	T cell-mediated increased osteoclast formation from peripheral blood as a mechanism for Crohn's disease-associated bone loss. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 260-8	4.7	33
56	P-glycoprotein regulates trafficking of CD8(+) T cells to the brain parenchyma. <i>Acta Neuropathologica</i> , <b>2014</b> , 127, 699-711	14.3	33
55	One-step biotinylation procedure for carbohydrates to study carbohydrate-protein interactions. <i>Analytical Biochemistry</i> , <b>2006</b> , 354, 54-63	3.1	33
54	Interaction of polysialic acid with CCL21 regulates the migratory capacity of human dendritic cells. <i>PLoS ONE</i> , <b>2009</b> , 4, e6987	3.7	33
53	Glioblastomas exploit truncated O-linked glycans for local and distant immune modulation via the macrophage galactose-type lectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 3693-3703	11.5	29
52	Ligand binding and signaling of dendritic cell immunoreceptor (DCIR) is modulated by the glycosylation of the carbohydrate recognition domain. <i>PLoS ONE</i> , <b>2013</b> , 8, e66266	3.7	29
51	Langerin-mediated internalization of a modified peptide routes antigens to early endosomes and enhances cross-presentation by human Langerhans cells. <i>Cellular and Molecular Immunology</i> , <b>2017</b> , 14, 360-370	15.4	28
50	MGL ligand expression is correlated to BRAF mutation and associated with poor survival of stage III colon cancer patients. <i>Oncotarget</i> , <b>2015</b> , 6, 26278-90	3.3	28
49	Sialic acid removal from dendritic cells improves antigen cross-presentation and boosts anti-tumor immune responses. <i>Oncotarget</i> , <b>2016</b> , 7, 41053-41066	3.3	27
48	The Cholangiocyte Glycocalyx Stabilizes the Biliary HCO <sub>3</sub> <sup>-</sup> Umbrella: An Integrated Line of Defense against Toxic Bile Acids. <i>Digestive Diseases</i> , <b>2015</b> , 33, 397-407	3.2	26
47	A Bitter Sweet Symphony: Immune Responses to Altered O-glycan Epitopes in Cancer. <i>Biomolecules</i> , <b>2016</b> , 6,	5.9	26

46	Interaction of the Capsular Polysaccharide A from <i>Bacteroides fragilis</i> with DC-SIGN on Human Dendritic Cells is Necessary for Its Processing and Presentation to T Cells. <i>Frontiers in Immunology</i> , <b>2013</b> , 4, 103	8.4	25
45	Sialic acids in pancreatic cancer cells drive tumour-associated macrophage differentiation via the Siglec receptors Siglec-7 and Siglec-9. <i>Nature Communications</i> , <b>2021</b> , 12, 1270	17.4	25
44	Antibody-opsionized bacteria evoke an inflammatory dendritic cell phenotype and polyfunctional Th cells by cross-talk between TLRs and FcRs. <i>Journal of Immunology</i> , <b>2015</b> , 194, 1856-66	5.3	22
43	Improved cancer specificity in PSA assay using <i>Aleuria aurantia</i> lectin coated Eu-nanoparticles for detection. <i>Clinical Biochemistry</i> , <b>2017</b> , 50, 54-61	3.5	22
42	Human T cell activation results in extracellular signal-regulated kinase (ERK)-calcineurin-dependent exposure of Tn antigen on the cell surface and binding of the macrophage galactose-type lectin (MGL). <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 27519-27532	5.4	22
41	Potency of HIV-1 envelope glycoprotein gp120 antibodies to inhibit the interaction of DC-SIGN with HIV-1 gp120. <i>Virology</i> , <b>2004</b> , 329, 465-76	3.6	22
40	Disruption of sialic acid metabolism drives tumor growth by augmenting CD8 T cell apoptosis. <i>International Journal of Cancer</i> , <b>2019</b> , 144, 2290-2302	7.5	22
39	Using the glycan toolbox for pathogenic interventions and glycan immunotherapy. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 51, 24-31	11.4	22
38	Immune Regulates CD11c Cells by Interacting with the Macrophage Gal/GalNAc Lectin. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 264	8.4	21
37	Transcriptional activation of fucosyltransferase (FUT) genes using the CRISPR-dCas9-VPR technology reveals potent N-glycome alterations in colorectal cancer cells. <i>Glycobiology</i> , <b>2019</b> , 29, 137-150	5.8	19
36	Systematic Dual Targeting of Dendritic Cell C-Type Lectin Receptor DC-SIGN and TLR7 Using a Trifunctional Mannosylated Antigen. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 650	5	18
35	The Consequences of Multiple Simultaneous C-Type Lectin-Ligand Interactions: DCIR Alters the Endo-Lysosomal Routing of DC-SIGN. <i>Frontiers in Immunology</i> , <b>2015</b> , 6, 87	8.4	18
34	<i>Trichuris suis</i> induces human non-classical patrolling monocytes via the mannose receptor and PKC: implications for multiple sclerosis. <i>Acta Neuropathologica Communications</i> , <b>2015</b> , 3, 45	7.3	18
33	Glycan-Modified Apoptotic Melanoma-Derived Extracellular Vesicles as Antigen Source for Anti-Tumor Vaccination. <i>Cancers</i> , <b>2019</b> , 11,	6.6	17
32	Toll-Like Receptor 4 Triggering Promotes Cytosolic Routing of DC-SIGN-Targeted Antigens for Presentation on MHC Class I. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 1231	8.4	16
31	The Plasticity of the Carbohydrate Recognition Domain Dictates the Exquisite Mechanism of Binding of Human Macrophage Galactose-Type Lectin. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 13945-13955	4.8	16
30	Tn Antigen Expression Contributes to an Immune Suppressive Microenvironment and Drives Tumor Growth in Colorectal Cancer. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 1622	5.3	16
29	Hypoxia inducible factor 1 $\alpha$ down regulates cell surface expression of $\alpha$ ,2-fucosylated glycans in human pancreatic adenocarcinoma cells. <i>FEBS Letters</i> , <b>2015</b> , 589, 2359-66	3.8	15

28	Identification of a secondary binding site in human macrophage galactose-type lectin by microarray studies: Implications for the molecular recognition of its ligands. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 1300-1311	5.4	15
27	A Nanoparticle-Lectin Immunoassay Improves Discrimination of Serum CA125 from Malignant and Benign Sources. <i>Clinical Chemistry</i> , <b>2016</b> , 62, 1390-400	5.5	13
26	Activation of the C-Type Lectin MGL by Terminal GalNAc Ligands Reduces the Glycolytic Activity of Human Dendritic Cells. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 305	8.4	12
25	Characterization of Macrophage Galactose-type Lectin (MGL) ligands in colorectal cancer cell lines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2020</b> , 1864, 129513	4	12
24	Oncogenic BRAFV600E drives expression of MGL ligands in the colorectal cancer cell line HT29 through N-acetylgalactosamine-transferase 3. <i>Biological Chemistry</i> , <b>2018</b> , 399, 649-659	4.5	11
23	Macrophage galactose-type lectin (MGL) is induced on M2 microglia and participates in the resolution phase of autoimmune neuroinflammation. <i>Journal of Neuroinflammation</i> , <b>2019</b> , 16, 130	10.1	11
22	Glycoproteomic Analysis of MGL-Binding Proteins on Acute T-Cell Leukemia Cells. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 1125-1132	5.6	11
21	MGL Ligand Expression Is Correlated to Lower Survival and Distant Metastasis in Cervical Squamous Cell and Adenosquamous Carcinoma. <i>Frontiers in Oncology</i> , <b>2019</b> , 9, 29	5.3	9
20	Differential - and Glycosphingolipid Glycosylation in Human Pancreatic Adenocarcinoma Cells With Opposite Morphology and Metastatic Behavior. <i>Frontiers in Oncology</i> , <b>2020</b> , 10, 732	5.3	9
19	-Mannosyl Lysine for Solid Phase Assembly of Mannosylated Peptide Conjugate Cancer Vaccines. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 728-739	4.9	9
18	Recent advances on smart glycoconjugate vaccines in infections and cancer. <i>FEBS Journal</i> , <b>2021</b> ,	5.7	8
17	Method comparison for N-glycan profiling: Towards the standardization of glycoanalytical technologies for cell line analysis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223270	3.7	7
16	MHC Class I Stability is Modulated by Cell Surface Sialylation in Human Dendritic Cells. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	6
15	FUT9-Driven Programming of Colon Cancer Cells towards a Stem Cell-Like State. <i>Cancers</i> , <b>2020</b> , 12,	6.6	6
14	Emerging glyco-based strategies to steer immune responses. <i>FEBS Journal</i> , <b>2021</b> , 288, 4746-4772	5.7	6
13	The Human Glycoprotein Salivary Agglutinin Inhibits the Interaction of DC-SIGN and Langerin with Oral Micro-Organisms. <i>Journal of Innate Immunity</i> , <b>2016</b> , 8, 350-61	6.9	6
12	-Glycoproteins Have a Major Role in MGL Binding to Colorectal Cancer Cell Lines: Associations with Overall Proteome Diversity. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	5
11	Targeting of the C-Type Lectin Receptor Langerin Using Bifunctional Mannosylated Antigens. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 556	5.7	4

10	The Tn antigen promotes lung tumor growth by fostering immunosuppression and angiogenesis via interaction with Macrophage Galactose-type lectin 2 (MGL2). <i>Cancer Letters</i> , <b>2021</b> , 518, 72-81	9.9	4
9	Blocking $\alpha$ -integrin reverts the adhesive phenotype of adult fibroblasts towards a foetal-like migratory phenotype. <i>Experimental Dermatology</i> , <b>2016</b> , 25, 480-2	4	3
8	Carbohydrates in allergy: from disease to novel immunotherapies. <i>Trends in Immunology</i> , <b>2021</b> , 42, 635-644	6.4	3
7	IFN- $\alpha$ affects the angiogenic potential of circulating angiogenic cells by activating calpain 1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H1667-78	5.2	2
6	Analysis of the glyco-code in pancreatic ductal adenocarcinoma identifies glycan-mediated immune regulatory circuits.. <i>Communications Biology</i> , <b>2022</b> , 5, 41	6.7	2
5	Quantitative Phosphoproteomic Analysis Reveals Dendritic Cell- Specific STAT Signaling After $\alpha$ -3-Linked Sialic Acid Ligand Binding. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 673454	8.4	1
4	Palmitoylated antigens for the induction of anti-tumor CD8 T cells and enhanced tumor recognition. <i>Molecular Therapy - Oncolytics</i> , <b>2021</b> , 21, 315-328	6.4	0
3	How mucins shape antigen-presenting cells to modify immune responses <b>2013</b> , 108-122		
2	Pathogen-recognition receptors as targets for pathogens to modulate immune function of antigen-presenting cells 173-192		
1	Human C-Type Lectins, MGL, DC-SIGN and Langerin, Their Interactions With Endogenous and Exogenous Ligand Patterns <b>2021</b> , 425-441		