Sandra J Van Vliet

List of Publications by Year
in descending order

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106	12,678	66234	33814
papers	citations	42 h-index	99 g-index

108	108	108	10587
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DC-SIGN, a Dendritic Cellâ€“Specific HIV-1-Binding Protein that Enhances trans-Infection of T Cells. Cell, 2000, 100, 587-597.	13.5	2,214
2	Identification of DC-SIGN, a Novel Dendritic Cellâ€“Specific ICAM-3 Receptor that Supports Primary Immune Responses. Cell, 2000, 100, 575-585.	13.5	1,558
3	Mycobacteria Target DC-SIGN to Suppress Dendritic Cell Function. Journal of Experimental Medicine, 2003, 197, 7-17.	4.2	971
4	The Dendritic Cell-Specific Adhesion Receptor DC-SIGN Internalizes Antigen for Presentation to T Cells. Journal of Immunology, 2002, 168, 2118-2126.	0.4	568
5	DC-SIGNâ€“ICAM-2 interaction mediates dendritic cell trafficking. Nature Immunology, 2000, 1, 353-357.	7.0	465
6	Self- and Nonself-Recognition by C-Type Lectins on Dendritic Cells. Annual Review of Immunology, 2004, 22, 33-54.	9.5	447
7	Cutting Edge: Carbohydrate Profiling Identifies New Pathogens That Interact with Dendritic Cell-Specific ICAM-3-Grabbing Nonintegrin on Dendritic Cells. Journal of Immunology, 2003, 170, 1635-1639.	0.4	402
8	A Dendritic Cellâ€“Specific Intercellular Adhesion Molecule 3â€“Grabbing Nonintegrin (Dc-Sign)â€“Related Protein Is Highly Expressed on Human Liver Sinusoidal Endothelial Cells and Promotes HIV-1 Infection. Journal of Experimental Medicine, 2001, 193, 671-678.	4.2	333
9	Helicobacter pylori Modulates the T Helper Cell 1/T Helper Cell 2 Balance through Phase-variable Interaction between Lipopolysaccharide and DC-SIGN. Journal of Experimental Medicine, 2004, 200, 979-990.	4.2	290
10	The dendritic cell-specific C-type lectin DC-SIGN is a receptor for Schistosoma mansoni egg antigens and recognizes the glycan antigen Lewis x. Glycobiology, 2003, 13, 471-478.	1.3	279
11	A biliary HCO‹sub›3‹/sub›‹sup›â^'‹/sup›umbrella constitutes a protective mechanism against bile acid-induced injury in human cholangiocytes. Hepatology, 2012, 55, 173-183.	3.6	259
12	Schistosoma mansoni soluble egg antigens are internalized by human dendritic cells through multiple C-type lectins and suppress TLR-induced dendritic cell activation. Molecular Immunology, 2007, 44, 2605-2615.	1.0	219
13	Carbohydrate profiling reveals a distinctive role for the C-type lectin MGL in the recognition of helminth parasites and tumor antigens by dendritic cells. International Immunology, 2005, 17, 661-669.	1.8	205
14	Galactosaminogalactan, a New Immunosuppressive Polysaccharide of Aspergillus fumigatus. PLoS Pathogens, 2011, 7, e1002372.	2.1	185
15	Regulation of effector T cells by antigen-presenting cells via interaction of the C-type lectin MGL with CD45. Nature Immunology, 2006, 7, 1200-1208.	7.0	181
16	Marginal zone macrophages express a murine homologue of DC-SIGN that captures blood-borne antigens in vivo. Blood, 2002, 100, 2908-2916.	0.6	167
17	Identification of Different Binding Sites in the Dendritic Cell-specific Receptor DC-SIGN for Intercellular Adhesion Molecule 3 and HIV-1. Journal of Biological Chemistry, 2002, 277, 11314-11320.	1.6	165
18	Dendritic cells and Câ€type lectin receptors: coupling innate to adaptive immune responses. Immunology and Cell Biology, 2008, 86, 580-587.	1.0	164

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19	Subset of DC-SIGN+ dendritic cells in human blood transmits HIV-1 to T lymphocytes. Blood, 2002, 100, 1780-1786.	0.6	148
20	Innate signaling and regulation of Dendritic cell immunity. Current Opinion in Immunology, 2007, 19, 435-440.	2.4	146
21	Sweet preferences of MGL: carbohydrate specificity and function. Trends in Immunology, 2008, 29, 83-90.	2.9	140
22	The Actin Cytoskeleton Regulates LFA-1 Ligand Binding through Avidity Rather than Affinity Changes. Journal of Biological Chemistry, 1999, 274, 26869-26877.	1.6	139
23	The C-type lectin MGL expressed by dendritic cells detects glycan changes on MUC1 in colon carcinoma. Cancer Immunology, Immunotherapy, 2007, 56, 1225-1236.	2.0	126
24	Sialic acids in pancreatic cancer cells drive tumour-associated macrophage differentiation via the Siglec receptors Siglec-7 and Siglec-9. Nature Communications, 2021, 12, 1270.	5.8	111
25	Fucosylated Antigens in Cancer: An Alliance toward Tumor Progression, Metastasis, and Resistance to Chemotherapy. Frontiers in Oncology, 2018, 8, 39.	1.3	104
26	High Frequency of Adhesion Defects in B-Lineage Acute Lymphoblastic Leukemia. Blood, 1999, 94, 754-764.	0.6	99
27	Trichuris suis-induced modulation of human dendritic cell function is glycan-mediated. International Journal for Parasitology, 2013, 43, 191-200.	1.3	97
28	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. Journal of Biological Chemistry, 2004, 279, 33161-33167.	1.6	93
29	MGL signaling augments TLR2-mediated responses for enhanced IL-10 and TNF-Î± secretion. Journal of Leukocyte Biology, 2013, 94, 315-323.	1.5	91
30	N-glycosylated proteins and distinct lipooligosaccharide glycoforms ofCampylobacter jejunitarget the human C-type lectin receptor MGL. Cellular Microbiology, 2009, 11, 1768-1781.	1.1	89
31	Characterization of murine MGL1 and MGL2 C-type lectins: Distinct glycan specificities and tumor binding properties. Molecular Immunology, 2009, 46, 1240-1249.	1.0	86
32	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. American Journal of Pathology, 2004, 164, 1587-1595.	1.9	83
33	Differential regulation of C-type lectin expression on tolerogenic dendritic cell subsets. Immunobiology, 2006, 211, 577-585.	0.8	80
34	Neisseria meningitidis expressing lgtB lipopolysaccharide targets DC-SIGN and modulates dendritic cell function. Cellular Microbiology, 2006, 8, 316-325.	1.1	74
35	Variation of Neisseria gonorrhoeae Lipooligosaccharide Directs Dendritic Cellâ€“Induced T Helper Responses. PLoS Pathogens, 2009, 5, e1000625.	2.1	72
36	Campylobacter jejuni Lipooligosaccharides Modulate Dendritic Cell-Mediated T Cell Polarization in a Sialic Acid Linkage-Dependent Manner. Infection and Immunity, 2011, 79, 2681-2689.	1.0	72

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37	N-glycosylation Profiling of Colorectal Cancer Cell Lines Reveals Association of Fucosylation with Differentiation and Caudal Type Homebox 1 (CDX1)/Villin mRNA Expression. Molecular and Cellular Proteomics, 2016, 15, 124-140.	2.5	72
38	Cross-presentation through langerin and DC-SIGN targeting requires different formulations of glycan-modified antigens. Journal of Controlled Release, 2015, 203, 67-76.	4.8	68
39	Novel insights into the immunomodulatory role of the dendritic cell and macrophage-expressed C-type lectin MGL. Immunobiology, 2015, 220, 185-192.	0.8	62
40	Glioblastomas exploit truncated O - linked glycans for local and distant immune modulation via the macrophage galactose-type lectin. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3693-3703.	3.3	57
41	MGLâ€mediated internalization and antigen presentation by dendritic cells: A role for tyrosineâ€5. European Journal of Immunology, 2007, 37, 2075-2081.	1.6	52
42	DCIR interacts with ligands from both endogenous and pathogenic origin. Immunology Letters, 2014, 158, 33-41.	1.1	47
43	Glycan-Modified Melanoma-Derived Apoptotic Extracellular Vesicles as Antigen Source for Anti-Tumor Vaccination. Cancers, 2019, 11, 1266.	1.7	47
44	The C-Type Lectin Macrophage Galactose-Type Lectin Impedes Migration of Immature APCs. Journal of Immunology, 2008, 181, 3148-3155.	0.4	44
45	Specific glycan elements determine differential binding of individual egg glycoproteins of the human parasite Schistosoma mansoni by host C-type lectin receptors. International Journal for Parasitology, 2012, 42, 269-277.	1.3	43
46	Toll-Like Receptor 4 Triggering Promotes Cytosolic Routing of DC-SIGN-Targeted Antigens for Presentation on MHC Class I. Frontiers in Immunology, 2018, 9, 1231.	2.2	43
47	A Bitter Sweet Symphony: Immune Responses to Altered O-glycan Epitopes in Cancer. Biomolecules, 2016, 6, 26.	1.8	42
48	Tn Antigen Expression Contributes to an Immune Suppressive Microenvironment and Drives Tumor Growth in Colorectal Cancer. Frontiers in Oncology, 2020, 10, 1622.	1.3	41
49	P-glycoprotein regulates trafficking of CD8+ T cells to the brain parenchyma. Acta Neuropathologica, 2014, 127, 699-711.	3.9	40
50	Ligand Binding and Signaling of Dendritic Cell Immunoreceptor (DCIR) Is Modulated by the Glycosylation of the Carbohydrate Recognition Domain. PLoS ONE, 2013, 8, e66266.	1.1	39
51	Recent advances on smart glycoconjugate vaccines in infections and cancer. FEBS Journal, 2022, 289, 4251-4303.	2.2	39
52	MGL ligand expression is correlated to BRAF mutation and associated with poor survival of stage III colon cancer patients. Oncotarget, 2015, 6, 26278-26290.	0.8	39
53	One-step biotinylation procedure for carbohydrates to study carbohydrateâ€“protein interactions. Analytical Biochemistry, 2006, 354, 54-63.	1.1	37
54	Langerin-mediated internalization of a modified peptide routes antigens to early endosomes and enhances cross-presentation by human Langerhans cells. Cellular and Molecular Immunology, 2017, 14, 360-370.	4.8	37

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55	Systematic Dual Targeting of Dendritic Cell C-Type Lectin Receptor DC-SIGN and TLR7 Using a Trifunctional Mannosylated Antigen. Frontiers in Chemistry, 2019, 7, 650.	1.8	37
56	Interaction of Polysialic Acid with CCL21 Regulates the Migratory Capacity of Human Dendritic Cells. PLoS ONE, 2009, 4, e6987.	1.1	37
57	Sialic acid removal from dendritic cells improves antigen cross-presentation and boosts anti-tumor immune responses. Oncotarget, 0, 7, 41053-41066.	0.8	37
58	T cellâ€mediated increased osteoclast formation from peripheral blood as a mechanism for crohn's diseaseâ€associated bone loss. Journal of Cellular Biochemistry, 2012, 113, 260-268.	1.2	36
59	Disruption of sialic acid metabolism drives tumor growth by augmenting CD8⁺ T cell apoptosis. International Journal of Cancer, 2019, 144, 2290-2302.	2.3	34
60	Antibody-Opsonized Bacteria Evoke an Inflammatory Dendritic Cell Phenotype and Polyfunctional Th Cells by Cross-Talk between TLRs and FcRs. Journal of Immunology, 2015, 194, 1856-1866.	0.4	33
61	The Cholangiocyte Glycocalyx Stabilizes the â€˜Biliary HCO₃⁻ Umbrella': An Integrated Line of Defense against Toxic Bile Acids. Digestive Diseases, 2015, 33, 397-407.	0.8	33
62	Interaction of the Capsular Polysaccharide A from Bacteroides fragilis with DC-SIGN on Human Dendritic Cells is Necessary for Its Processing and Presentation to T Cells. Frontiers in Immunology, 2013, 4, 103.	2.2	32
63	Using the glycan toolbox for pathogenic interventions and glycan immunotherapy. Current Opinion in Biotechnology, 2018, 51, 24-31.	3.3	32
64	Identification of a secondary binding site in human macrophage galactose-type lectin by microarray studies: Implications for the molecular recognition of its ligands. Journal of Biological Chemistry, 2019, 294, 1300-1311.	1.6	31
65	Fasciola hepatica Immune Regulates CD11c+ Cells by Interacting with the Macrophage Gal/GalNAc Lectin. Frontiers in Immunology, 2017, 8, 264.	2.2	29
66	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)*. Journal of Biological Chemistry, 2013, 288, 27519-27532.	1.6	27
67	Transcriptional activation of fucosyltransferase (FUT) genes using the CRISPR-dCas9-VPR technology reveals potent N-glycome alterations in colorectal cancer cells. Glycobiology, 2019, 29, 137-150.	1.3	27
68	Potency of HIV-1 envelope glycoprotein gp120 antibodies to inhibit the interaction of DC-SIGN with HIV-1 gp120. Virology, 2004, 329, 465-476.	1.1	24
69	Improved cancer specificity in PSA assay using Aleuria aurantia lectin coated Eu-nanoparticles for detection. Clinical Biochemistry, 2017, 50, 54-61.	0.8	24
70	The Plasticity of the Carbohydrate Recognition Domain Dictates the Exquisite Mechanism of Binding of Human Macrophage Galactoseâ€Type Lectin. Chemistry - A European Journal, 2019, 25, 13945-13955.	1.7	24
71	The Tn antigen promotes lung tumor growth by fostering immunosuppression and angiogenesis via interaction with Macrophage Galactose-type lectin 2 (MGL2). Cancer Letters, 2021, 518, 72-81.	3.2	24
72	The Consequences of Multiple Simultaneous C-Type Lectinâ€“Ligand Interactions: DCIR Alters the Endo-Lysosomal Routing of DC-SIGN. Frontiers in Immunology, 2015, 6, 87.	2.2	23

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73	Macrophage galactose-type lectin (MGL) is induced on M2 microglia and participates in the resolution phase of autoimmune neuroinflammation. Journal of Neuroinflammation, 2019, 16, 130.	3.1	23
74	Characterization of Macrophage Galactose-type Lectin (MGL) ligands in colorectal cancer cell lines. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129513.	1.1	22
75	Activation of the C-Type Lectin MGL by Terminal GalNAc Ligands Reduces the Glycolytic Activity of Human Dendritic Cells. Frontiers in Immunology, 2020, 11, 305.	2.2	22
76	Emerging glycoâ€based strategies to steer immune responses. FEBS Journal, 2021, 288, 4746-4772.	2.2	22
77	A Nanoparticle-Lectin Immunoassay Improves Discrimination of Serum CA125 from Malignant and Benign Sources. Clinical Chemistry, 2016, 62, 1390-1400.	1.5	21
78	MGL Ligand Expression Is Correlated to Lower Survival and Distant Metastasis in Cervical Squamous Cell and Adenosquamous Carcinoma. Frontiers in Oncology, 2019, 9, 29.	1.3	21
79	Hypoxia inducible factor 1Î± down regulates cell surface expression of Î±1,2â€fucosylated glycans in human pancreatic adenocarcinoma cells. FEBS Letters, 2015, 589, 2359-2366.	1.3	20
80	Trichuris suis induces human non-classical patrolling monocytes via the mannose receptor and PKC: implications for multiple sclerosis. Acta Neuropathologica Communications, 2015, 3, 45.	2.4	20
81	Glycoproteomic Analysis of MGL-Binding Proteins on Acute T-Cell Leukemia Cells. Journal of Proteome Research, 2019, 18, 1125-1132.	1.8	18
82	Oncogenic BRAF^{V600E} drives expression of MGL ligands in the colorectal cancer cell line HT29 through N-acetylgalactosamine-transferase 3. Biological Chemistry, 2018, 399, 649-659.	1.2	16
83	Differential O- and Glycosphingolipid Glycosylation in Human Pancreatic Adenocarcinoma Cells With Opposite Morphology and Metastatic Behavior. Frontiers in Oncology, 2020, 10, 732.	1.3	16
84	MHC Class I Stability is Modulated by Cell Surface Sialylation in Human Dendritic Cells. Pharmaceutics, 2020, 12, 249.	2.0	16
85	C-Mannosyl Lysine for Solid Phase Assembly of Mannosylated Peptide Conjugate Cancer Vaccines. ACS Chemical Biology, 2020, 15, 728-739.	1.6	16
86	FUT9-Driven Programming of Colon Cancer Cells towards a Stem Cell-Like State. Cancers, 2020, 12, 2580.	1.7	15
87	Targeting of the C-Type Lectin Receptor Langerin Using Bifunctional Mannosylated Antigens. Frontiers in Cell and Developmental Biology, 2020, 8, 556.	1.8	13
88	The Human Glycoprotein Salivary Agglutinin Inhibits the Interaction of DC-SIGN and Langerin with Oral Micro-Organisms. Journal of Innate Immunity, 2016, 8, 350-361.	1.8	11
89	N-Glycoproteins Have a Major Role in MGL Binding to Colorectal Cancer Cell Lines: Associations with Overall Proteome Diversity. International Journal of Molecular Sciences, 2020, 21, 5522.	1.8	11
90	Carbohydrates in allergy: from disease to novel immunotherapies. Trends in Immunology, 2021, 42, 635-648.	2.9	10

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91	Method comparison for N-glycan profiling: Towards the standardization of glycoanalytical technologies for cell line analysis. PLoS ONE, 2019, 14, e0223270.	1.1	9
92	Analysis of the glyco-code in pancreatic ductal adenocarcinoma identifies glycan-mediated immune regulatory circuits. Communications Biology, 2022, 5, 41.	2.0	8
93	Î±2-3 Sialic acid binding and uptake by human monocyte-derived dendritic cells alters metabolism and cytokine release and initiates tolerizing T cell programming. Immunotherapy Advances, 2021, 1, .	1.2	7
94	Blocking Î±1â€integrin reverts the adhesive phenotype of adult fibroblasts towards a foetalâ€like migratory phenotype. Experimental Dermatology, 2016, 25, 480-482.	1.4	4
95	IFN-Î² affects the angiogenic potential of circulating angiogenic cells by activating calpain 1. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1667-H1678.	1.5	3
96	Apoptotic vesicles as tumor vaccine. Immunotherapy, 2016, 8, 5-8.	1.0	3
97	Quantitative Phosphoproteomic Analysis Reveals Dendritic Cell- Specific STAT Signaling After Î±2-3â€“Linked Sialic Acid Ligand Binding. Frontiers in Immunology, 2021, 12, 673454.	2.2	3
98	Palmitoylated antigens for the induction of anti-tumor CD8+ TÂcells and enhanced tumor recognition. Molecular Therapy - Oncolytics, 2021, 21, 315-328.	2.0	3
99	Editorial: Sentinel CLECs at Immunological Decision Nodes. Frontiers in Immunology, 2020, 11, 2066.	2.2	2
100	Human C-Type Lectins, MGL, DC-SIGN and Langerin, Their Interactions With Endogenous and Exogenous Ligand Patterns. , 2021, , 425-441.		1
101	Pathogen-recognition receptors as targets for pathogens to modulate immune function of antigen-presenting cells. , 0, , 173-192.		0
102	08.05â€…How do glycans affect immune cells in ra?. , 2017, , .		0
103	P002â€…How do glycans affect immune cells in rheumatoid arthritis?. , 2018, , .		0
104	P032â€…Sialic acids inhibit neutrophil extracellular trap formation. , 2019, , .		0
105	P031/O12â€…Sialic acids negatively affect the bone resorptive capacity of osteoclasts. , 2019, , .		0
106	Abstract B63: Bittersweet symphony: How tumor-associated glycan structures orchestrate immune evasion. , 2018, , .		0