Vered Padler-Karavani

List of Publications by Year
in descending order

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57 papers	2,962 citations	201674 27 h-index	168389 53 g-index
61 all docs	61 docs citations	61 times ranked	2907 citing authors

#	Article	IF	Citations
1	Implications of the presence of N-glycolylneuraminic acid in recombinant therapeutic glycoproteins. Nature Biotechnology, 2010, 28, 863-867.	17.5	316
2	Diversity in specificity, abundance, and composition of anti-Neu5Gc antibodies in normal humans: Potential implications for disease. Glycobiology, 2008, 18, 818-830.	2.5	297
3	Evidence for a human-specific mechanism for diet and antibody-mediated inflammation in carcinoma progression. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18936-18941.	7.1	160
4	Human Xeno-Autoantibodies against a Non-Human Sialic Acid Serve as Novel Serum Biomarkers and Immunotherapeutics in Cancer. Cancer Research, 2011, 71, 3352-3363.	0.9	136
5	Potential impact of the nonâ€human sialic acid Nâ€glycolylneuraminic acid on transplant rejection risk. Xenotransplantation, 2011, 18, 1-5.	2.8	136
6	Novel mechanism for the generation of human xeno-autoantibodies against the nonhuman sialic acid N-glycolylneuraminic acid. Journal of Experimental Medicine, 2010, 207, 1637-1646.	8.5	134
7	Sensitive and Specific Detection of the Non-Human Sialic Acid N-Glycolylneuraminic Acid In Human Tissues and Biotherapeutic Products. PLoS ONE, 2009, 4, e4241.	2.5	127
8	Cross-comparison of Protein Recognition of Sialic Acid Diversity on Two Novel Sialoglycan Microarrays. Journal of Biological Chemistry, 2012, 287, 22593-22608.	3.4	116
9	Long-Term IgG Response to Porcine Neu5Gc Antigens without Transmission of PERV in Burn Patients Treated with Porcine Skin Xenografts. Journal of Immunology, 2013, 191, 2907-2915.	0.8	114
10	Evidence for a novel human-specific xeno-auto-antibody response against vascular endothelium. Blood, 2009, 114, 5225-5235.	1.4	107
11	Glycans in immune recognition and response. Carbohydrate Research, 2014, 389, 115-122.	2.3	95
12	Characterization of yeast V-ATPase mutants lacking Vph1p or Stv1p and the effect on endocytosis. Journal of Experimental Biology, 2002, 205, 1209-1219.	1.7	82
13	Rapid evolution of binding specificities and expression patterns of inhibitory CD33â€related Siglecs in primates. FASEB Journal, 2014, 28, 1280-1293.	0.5	71
14	Characterization of yeast V-ATPase mutants lacking Vph1p or Stv1p and the effect on endocytosis. Journal of Experimental Biology, 2002, 205, 1209-19.	1.7	70
15	Aiming at the sweet side of cancer: Aberrant glycosylation as possible target for personalized-medicine. Cancer Letters, 2014, 352, 102-112.	7.2	67
16	Specific inactivation of two immunomodulatory SIGLEC genes during human evolution. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9935-9940.	7.1	64
17	Characterization of immunogenic Neu5Gc in bioprosthetic heart valves. Xenotransplantation, 2016, 23, 381-392.	2.8	63
18	Complexity and Diversity of the Mammalian Sialome Revealed by Nidovirus Virolectins. Cell Reports, 2015, 11, 1966-1978.	6.4	62

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19	A Simple Method for Assessment of Human Anti-Neu5Gc Antibodies Applied to Kawasaki Disease. PLoS ONE, 2013, 8, e58443.	2.5	57
20	Polyclonal human antibodies against glycans bearing red meat-derived non-human sialic acid N-glycolylneuraminic acid are stable, reproducible, complex and vary between individuals: Total antibody levels are associated with colorectal cancer risk. PLoS ONE, 2018, 13, e0197464.	2.5	45
21	Biomimetic Glyconanoparticle Vaccine for Cancer Immunotherapy. ACS Nano, 2019, 13, 2936-2947.	14.6	42
22	Glycosylated Biotherapeutics: Immunological Effects of N-Glycolylneuraminic Acid. Frontiers in Immunology, 2020, 11, 21.	4.8	42
23	The role of antibody responses against glycans in bioprosthetic heart valve calcification and deterioration. Nature Medicine, 2022, 28, 283-294.	30.7	40
24	Quantum Dot Nanometal Surface Energy Transfer Based Biosensing of Sialic Acid Compositions and Linkages in Biological Samples. Analytical Chemistry, 2013, 85, 3864-3870.	6.5	35
25	Evolution of sialic acids: Implications in xenotransplant biology. Xenotransplantation, 2018, 25, e12424.	2.8	34
26	Features of V-ATPases that distinguish them from F-ATPases. FEBS Letters, 2001, 504, 223-228.	2.8	30
27	Generation of cattle knockout for galactoseâ€Î±1,3â€galactose and Nâ€glycolylneuraminic acid antigens. Xenotransplantation, 2019, 26, e12524.	2.8	30
28	LCâ€“MS Analysis of Polyclonal Human Anti-Neu5Gc Xeno-Autoantibodies Immunoglobulin G Subclass and Partial Sequence Using Multistep Intravenous Immunoglobulin Affinity Purification and Multienzymatic Digestion. Analytical Chemistry, 2012, 84, 2761-2768.	6.5	29
29	Therapeutic antibodies, targeting the SARS-CoV-2 spike N-terminal domain, protect lethally infected K18-hACE2 mice. IScience, 2021, 24, 102479.	4.1	29
30	Association between Neu5Gc carbohydrate and serum antibodies against it provides the molecular link to cancer: French NutriNet-SantÃ© study. BMC Medicine, 2020, 18, 262.	5.5	28
31	Glycan microarray reveal induced IgGs repertoire shift against a dietary carbohydrate in response to rabbit anti-human thymocyte therapy. Oncotarget, 2017, 8, 112236-112244.	1.8	26
32	Profiling Anti-Neu5Gc IgG in Human Sera with a Sialoglycan Microarray Assay. Journal of Visualized Experiments, 2017, , .	0.3	23
33	Nontypeable Haemophilus influenzae Has Evolved Preferential Use of N- Acetylneuraminic Acid as a Host Adaptation. MBio, 2019, 10, .	4.1	20
34	Presentation Mode of Glycans Affect Recognition of Human Serum anti-Neu5Gc IgG Antibodies. Bioconjugate Chemistry, 2019, 30, 161-168.	3.6	19
35	Placental colonization by Fusobacterium nucleatum is mediated by binding of the Fap2 lectin to placentally displayed Gal-GalNAc. Cell Reports, 2022, 38, 110537.	6.4	18
36	Biochemical support for the V-ATPase rotary mechanism: antibody against HA-tagged Vma7p or Vma16p but not Vma10p inhibits activity. Journal of Experimental Biology, 2003, 206, 3227-3237.	1.7	16

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37	Rational design of universal immunotherapy for TfR1-tropic arenaviruses. Nature Communications, 2020, 11, 67.	12.8	16
38	A combined computational-experimental approach to define the structural origin of antibody recognition of sialyl-Tn, a tumor-associated carbohydrate antigen. Scientific Reports, 2018, 8, 10786.	3.3	15
39	Microarray Analysis of Oligosaccharideâ€Mediated Multivalent Carbohydrateâ€“Protein Interactions and Their Heterogeneity. ChemBioChem, 2018, 19, 1170-1177.	2.6	14
40	Directed Evolution of Therapeutic Antibodies Targeting Glycosylation in Cancer. Cancers, 2020, 12, 2824.	3.7	14
41	Discovery of rare sulfated N-unsubstituted glucosamine based heparan sulfate analogs selectively activating chemokines. Chemical Science, 2021, 12, 3674-3681.	7.4	14
42	Poor Patient and Graft Outcome After Induction Treatment by Antithymocyte Globulin in Recipients of a Kidney Graft After Nonrenal Organ Transplantation. Transplantation Direct, 2018, 4, e357.	1.6	12
43	Elicited and preâ€existing antiâ€Neu5Gc antibodies differentially affect human endothelial cells transcriptome. Xenotransplantation, 2019, 26, e12535.	2.8	12
44	Differential Recognition of Diet-Derived Neu5Gc-Neoantigens on Glycan Microarrays by Carbohydrate-Specific Pooled Human IgG and IgA Antibodies. Bioconjugate Chemistry, 2019, 30, 1565-1574.	3.6	12
45	Heparan Sulfate Mimetics Differentially Affect Homologous Chemokines and Attenuate Cancer Development. Journal of Medicinal Chemistry, 2021, 64, 3367-3380.	6.4	11
46	Sulfation Code and Conformational Plasticity of l-Iduronic Acid Homo-Oligosaccharides Mimic the Biological Functions of Heparan Sulfate. ACS Chemical Biology, 2021, 16, 2481-2489.	3.4	10
47	Quantitative and qualitative changes in antiâ€Neu5Gc antibody response following rabbit antiâ€thymocyte IgG induction in kidney allograft recipients. European Journal of Clinical Investigation, 2019, 49, e13069.	3.4	9
48	Synthetic heparan sulfate ligands for vascular endothelial growth factor to modulate angiogenesis. Chemical Communications, 2021, 57, 3516-3519.	4.1	9
49	Screening of Neu5AcÎ±(2â€“6)gal isomer preferences of siglecs with a sialic acid microarray. Organic and Biomolecular Chemistry, 2016, 14, 10812-10815.	2.8	6
50	Glycan Microarray Reveal the Sweet Side of Cancer Vaccines. Cell Chemical Biology, 2016, 23, 1446-1447.	5.2	5
51	Biomolecular Recognition of the Glycan Neoantigen CA19-9 by Distinct Antibodies. Journal of Molecular Biology, 2021, 433, 167099.	4.2	5
52	ABO Antigens Active Tri- and Disaccharides Microarray to Evaluate C-type Lectin Receptor Binding Preferences. Scientific Reports, 2018, 8, 6603.	3.3	4
53	Engineered Highâ€Specificity Affinity Reagents for the Detection of Glycan Sialylation. FASEB Journal, 2019, 33, 801.2.	0.5	3
54	Specific Detection of Neu5Gc in Animal Tissues by Immunohistochemistry. Methods in Molecular Biology, 2020, 2110, 59-72.	0.9	2

#	ARTICLE	IF	CITATIONS
55	Xenotransplantation: The Way beyond and Ahead toward Clinical Application. Journal of Immunology Research, 2018, 2018, 1-2.	2.2	1
56	Editorial: Human Antibodies Against the Dietary Non-human Neu5Gc-Carrying Glycans in Normal and Pathologic States. Frontiers in Immunology, 2020, 11, 1589.	4.8	1
57	Highâ€Specificity Affinity Reagents for the Detection of Glycan Sialylation. FASEB Journal, 2018, 32, 544.16.	0.5	1