

Jamie Heimborg-Molinaro

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.

58

papers

2,058

citations

22

h-index

44

g-index

61

ext. papers

2,388

ext. citations

6.1

avg, IF

4.65

L-index

#	Paper	IF	Citations
58	Innate immune lectins kill bacteria expressing blood group antigen. <i>Nature Medicine</i> , 2010 , 16, 295-301	50.5	223
57	Cancer vaccines and carbohydrate epitopes. <i>Vaccine</i> , 2011 , 29, 8802-26	4.1	177
56	Shotgun glycomics: a microarray strategy for functional glycomics. <i>Nature Methods</i> , 2011 , 8, 85-90	21.6	159
55	Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014 , 10, 470-6	11.7	156
54	Simple sugars to complex disease--mucin-type O-glycans in cancer. <i>Advances in Cancer Research</i> , 2015 , 126, 53-135	5.9	119
53	Tn and sialyl-Tn antigens, aberrant O-glycomics as human disease markers. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 618-31	3.1	96
52	Shotgun glycomics of pig lung identifies natural endogenous receptors for influenza viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2241-50	11.5	80
51	Comparison of the receptor binding properties of contemporary swine isolates and early human pandemic H1N1 isolates (Novel 2009 H1N1). <i>Virology</i> , 2011 , 413, 169-82	3.6	63
50	Preparation and analysis of glycan microarrays. <i>Current Protocols in Protein Science</i> , 2011 , Chapter 12, Unit12.10	3.1	60
49	Glycoconjugates in host-helminth interactions. <i>Frontiers in Immunology</i> , 2013 , 4, 240	8.4	58
48	Molecular basis of 9G4 B cell autoreactivity in human systemic lupus erythematosus. <i>Journal of Immunology</i> , 2013 , 191, 4926-39	5.3	55
47	Chemistry of natural glycan microarrays. <i>Current Opinion in Chemical Biology</i> , 2014 , 18, 70-7	9.7	53
46	Analysis of influenza virus hemagglutinin receptor binding mutants with limited receptor recognition properties and conditional replication characteristics. <i>Journal of Virology</i> , 2011 , 85, 12387-98	6.6	48
45	Deciphering structural elements of mucin glycoprotein recognition. <i>ACS Chemical Biology</i> , 2012 , 7, 1031-9	7.9	45
44	Identification and characterization of endogenous galectins expressed in Madin Darby canine kidney cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6780-90	5.4	41
43	Influenza binds phosphorylated glycans from human lung. <i>Science Advances</i> , 2019 , 5, eaav2554	14.3	40
42	Glycan Microarrays as Chemical Tools for Identifying Glycan Recognition by Immune Proteins. <i>Frontiers in Chemistry</i> , 2019 , 7, 833	5	34

41	Development, characterization, and immunotherapeutic use of peptide mimics of the Thomsen-Friedenreich carbohydrate antigen. <i>Neoplasia</i> , 2009 , 11, 780-92	6.4	33
40	Deciphering the glycogenome of schistosomes. <i>Frontiers in Genetics</i> , 2014 , 5, 262	4.5	27
39	Differential expression of anti-glycan antibodies in schistosome-infected humans, rhesus monkeys and mice. <i>Glycobiology</i> , 2014 , 24, 602-18	5.8	25
38	Computational screening of the human TF-glycome provides a structural definition for the specificity of anti-tumor antibody JAA-F11. <i>PLoS ONE</i> , 2013 , 8, e54874	3.7	24
37	Lectins identify glycan biomarkers on glioblastoma-derived cancer stem cells. <i>Stem Cells and Development</i> , 2012 , 21, 2374-86	4.4	24
36	Glycan microarrays of fluorescently-tagged natural glycans. <i>Glycoconjugate Journal</i> , 2015 , 32, 465-73	3	22
35	Probing virus-glycan interactions using glycan microarrays. <i>Methods in Molecular Biology</i> , 2012 , 808, 251-67	6.7	22
34	Natural and Synthetic Sialylated Glycan Microarrays and Their Applications. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 88	5.6	20
33	Immunization with recombinantly expressed glycan antigens from <i>Schistosoma mansoni</i> induces glycan-specific antibodies against the parasite. <i>Glycobiology</i> , 2014 , 24, 619-37	5.8	19
32	Examining galectin binding specificity using glycan microarrays. <i>Methods in Molecular Biology</i> , 2015 , 1207, 115-31	1.4	19
31	O-glycan recognition and function in mice and human cancers. <i>Biochemical Journal</i> , 2020 , 477, 1541-1564	5.8	19
30	Development of smart anti-glycan reagents using immunized lampreys. <i>Communications Biology</i> , 2020 , 3, 91	6.7	18
29	Microarray analysis of the human antibody response to synthetic <i>Cryptosporidium</i> glycopeptides. <i>International Journal for Parasitology</i> , 2013 , 43, 901-7	4.3	18
28	Development and characterization of a specific IgG monoclonal antibody toward the Lewis x antigen using splenocytes of <i>Schistosoma mansoni</i> -infected mice. <i>Glycobiology</i> , 2013 , 23, 877-92	5.8	18
27	Development and characterization of antibodies to carbohydrate antigens. <i>Methods in Molecular Biology</i> , 2009 , 534, 341-57	1.4	18
26	Structure and receptor binding specificity of hemagglutinin H13 from avian influenza A virus H13N6. <i>Journal of Virology</i> , 2013 , 87, 9077-85	6.6	17
25	Low ethanol concentration alters CHRNA5 RNA levels during early human development. <i>Reproductive Toxicology</i> , 2010 , 30, 489-92	3.4	16
24	Antigenic Pressure on H3N2 Influenza Virus Drift Strains Imposes Constraints on Binding to Sialylated Receptors but Not Phosphorylated Glycans. <i>Journal of Virology</i> , 2019 , 93,	6.6	14

23	A library of chemically defined human N-glycans synthesized from microbial oligosaccharide precursors. <i>Scientific Reports</i> , 2017 , 7, 15907	4.9	13
22	Identification of Tn antigen O-GalNAc-expressing glycoproteins in human carcinomas using novel anti-Tn recombinant antibodies. <i>Glycobiology</i> , 2020 , 30, 282-300	5.8	13
21	Heparin binding epidermal growth factor-like growth factor reduces ethanol-induced apoptosis and differentiation in human embryonic stem cells. <i>Growth Factors</i> , 2009 , 27, 362-9	1.6	12
20	Profiling of glycan receptors for minute virus of mice in permissive cell lines towards understanding the mechanism of cell recognition. <i>PLoS ONE</i> , 2014 , 9, e86909	3.7	12
19	Glycan microarrays. <i>Methods in Molecular Biology</i> , 2012 , 800, 163-71	1.4	12
18	Preparation of a mannose-6-phosphate glycan microarray through fluorescent derivatization, phosphorylation, and immobilization of natural high-mannose N-glycans and application in ligand identification of P-type lectins. <i>Methods in Molecular Biology</i> , 2012 , 808, 137-48	1.4	12
17	Antibodies from Lampreys as Smart Anti-Glycan Reagents (SAGRs): Perspectives on Their Specificity, Structure, and Glyco-genomics. <i>Biochemistry</i> , 2020 , 59, 3111-3122	3.2	11
16	Intact reducing glycan promotes the specific immune response to lacto-N-neotetraose-BSA neoglycoconjugates. <i>Bioconjugate Chemistry</i> , 2015 , 26, 559-71	6.3	11
15	Emerging patterns of tyrosine sulfation and O-glycosylation cross-talk and co-localization. <i>Current Opinion in Structural Biology</i> , 2020 , 62, 102-111	8.1	10
14	Novel Reversible Fluorescent Glycan Linker for Functional Glycomics. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2897-2908	6.3	10
13	Derivatization of free natural glycans for incorporation onto glycan arrays: derivatizing glycans on the microscale for microarray and other applications (ms# CP-10-0194). <i>Current Protocols in Chemical Biology</i> , 2011 , 3, 53-63	1.8	10
12	Heparin binding epidermal growth factor-like growth factor and PD169316 prevent apoptosis in mouse embryonic stem cells. <i>Journal of Biochemistry</i> , 2009 , 145, 177-84	3.1	9
11	GABRB3 gene expression increases upon ethanol exposure in human embryonic stem cells. <i>Journal of Receptor and Signal Transduction Research</i> , 2011 , 31, 206-13	2.6	6
10	Novel lamprey antibody recognizes terminal sulfated galactose epitopes on mammalian glycoproteins. <i>Communications Biology</i> , 2021 , 4, 674	6.7	6
9	Molecular cloning, expression, and characterization of UDP N-acetyl-β-galactosamine: Polypeptide N-acetylgalactosaminyltransferase 4 from <i>Cryptosporidium parvum</i> . <i>Molecular and Biochemical Parasitology</i> , 2018 , 221, 56-65	1.9	5
8	Unique repertoire of anti-carbohydrate antibodies in individual human serum. <i>Scientific Reports</i> , 2020 , 10, 15436	4.9	4
7	Differential recognition of oligomannose isomers by glycan-binding proteins involved in innate and adaptive immunity. <i>Science Advances</i> , 2021 , 7,	14.3	4
6	Tumor cells express pauci- and oligomannosidic N-glycans in glycoproteins recognized by the mannose receptor (CD206). <i>Cellular and Molecular Life Sciences</i> , 2021 , 78, 5569-5585	10.3	4

5	Parallel Glyco-SPOT Synthesis of Glycopeptide Libraries. <i>Cell Chemical Biology</i> , 2020 , 27, 1207-1219.e9	8.2	3
4	Ethanol alters cell cycle gene expression in human embryonic stem cells. <i>Journal of Pediatric Biochemistry</i> , 2015 , 01, 201-208		2
3	Tools for generating and analyzing glycan microarray data. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 2260-2271	2.5	2
2	Major differences in glycosylation and Fucosyltransferase expression in low-grade versus high-grade bladder cancer cell lines. <i>Glycobiology</i> , 2021 ,	5.8	2
1	Identification of Glycan-Specific Variable Lymphocyte Receptors Using Yeast Surface Display and Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2022 , 2421, 73-89	1.4	1