

Jamie Heimborg-Molinaro

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,678
citations

293460

24
h-index

214428

50
g-index

61
all docs

61
docs citations

61
times ranked

4000
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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. | 0.4 | 4 |
| 2 | Differential recognition of oligomannose isomers by glycan-binding proteins involved in innate and adaptive immunity. <i>Science Advances</i> , 2021, 7, . | 4.7 | 18 |
| 3 | 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. | 2.4 | 13 |
| 4 | Novel lamprey antibody recognizes terminal sulfated galactose epitopes on mammalian glycoproteins. <i>Communications Biology</i> , 2021, 4, 674. | 2.0 | 13 |
| 5 | Major differences in glycosylation and fucosyltransferase expression in low-grade versus high-grade bladder cancer cell lines. <i>Glycobiology</i> , 2021, 31, 1444-1463. | 1.3 | 8 |
| 6 | Tools for generating and analyzing glycan microarray data. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2260-2271. | 1.3 | 10 |
| 7 | Unique repertoire of anti-carbohydrate antibodies in individual human serum. <i>Scientific Reports</i> , 2020, 10, 15436. | 1.6 | 18 |
| 8 | Parallel Glyco-SPOT Synthesis of Glycopeptide Libraries. <i>Cell Chemical Biology</i> , 2020, 27, 1207-1219.e9. | 2.5 | 9 |
| 9 | Development of smart anti-glycan reagents using immunized lampreys. <i>Communications Biology</i> , 2020, 3, 91. | 2.0 | 27 |
| 10 | Antibodies from Lampreys as Smart Anti-Glycan Reagents (SAGRs): Perspectives on Their Specificity, Structure, and Glyco-genomics. <i>Biochemistry</i> , 2020, 59, 3111-3122. | 1.2 | 16 |
| 11 | Emerging patterns of tyrosine sulfation and O-glycosylation cross-talk and co-localization. <i>Current Opinion in Structural Biology</i> , 2020, 62, 102-111. | 2.6 | 26 |
| 12 | O-glycan recognition and function in mice and human cancers. <i>Biochemical Journal</i> , 2020, 477, 1541-1564. | 1.7 | 47 |
| 13 | Novel Reversible Fluorescent Glycan Linker for Functional Glycomics. <i>Bioconjugate Chemistry</i> , 2019, 30, 2897-2908. | 1.8 | 18 |
| 14 | Natural and Synthetic Sialylated Glycan Microarrays and Their Applications. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 88. | 1.6 | 23 |
| 15 | Influenza binds phosphorylated glycans from human lung. <i>Science Advances</i> , 2019, 5, eaav2554. | 4.7 | 64 |
| 16 | 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, . | 1.5 | 34 |
| 17 | Identification of Tn Antigen O-GalNAc-expressing glycoproteins in human carcinomas using novel anti-Tn recombinant antibodies. <i>Glycobiology</i> , 2019, 30, 282-300. | 1.3 | 18 |
| 18 | Glycan Microarrays as Chemical Tools for Identifying Glycan Recognition by Immune Proteins. <i>Frontiers in Chemistry</i> , 2019, 7, 833. | 1.8 | 59 |

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|----|---|-----|-----------|
| 19 | Molecular cloning, expression, and characterization of UDP N-acetyl-1,4-galactosamine: Polypeptide N-acetylgalactosaminyltransferase 4 from <i>Cryptosporidium parvum</i> . <i>Molecular and Biochemical Parasitology</i> , 2018, 221, 56-65. | 0.5 | 7 |
| 20 | A library of chemically defined human N-glycans synthesized from microbial oligosaccharide precursors. <i>Scientific Reports</i> , 2017, 7, 15907. | 1.6 | 22 |
| 21 | Simple Sugars to Complex Disease—Mucin-Type O-Glycans in Cancer. <i>Advances in Cancer Research</i> , 2015, 126, 53-135. | 1.9 | 185 |
| 22 | Intact Reducing Glycan Promotes the Specific Immune Response to Lacto-N-neotetraose-BSA Neoglycoconjugates. <i>Bioconjugate Chemistry</i> , 2015, 26, 559-571. | 1.8 | 13 |
| 23 | Glycan microarrays of fluorescently-tagged natural glycans. <i>Glycoconjugate Journal</i> , 2015, 32, 465-473. | 1.4 | 26 |
| 24 | Examining Galectin Binding Specificity Using Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2015, 1207, 115-131. | 0.4 | 27 |
| 25 | Ethanol alters cell cycle gene expression in human embryonic stem cells. <i>Journal of Pediatric Biochemistry</i> , 2015, 01, 201-208. | 0.2 | 2 |
| 26 | Deciphering the glycogenome of schistosomes. <i>Frontiers in Genetics</i> , 2014, 5, 262. | 1.1 | 33 |
| 27 | Chemistry of natural glycan microarrays. <i>Current Opinion in Chemical Biology</i> , 2014, 18, 70-77. | 2.8 | 59 |
| 28 | Immunization with recombinantly expressed glycan antigens from <i>Schistosoma mansoni</i> induces glycan-specific antibodies against the parasite. <i>Glycobiology</i> , 2014, 24, 619-637. | 1.3 | 24 |
| 29 | Microbial glycan microarrays define key features of host-microbial interactions. <i>Nature Chemical Biology</i> , 2014, 10, 470-476. | 3.9 | 191 |
| 30 | 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. | 3.3 | 97 |
| 31 | Differential expression of anti-glycan antibodies in schistosome-infected humans, rhesus monkeys and mice. <i>Glycobiology</i> , 2014, 24, 602-618. | 1.3 | 32 |
| 32 | 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. | 1.1 | 14 |
| 33 | Structure and Receptor Binding Specificity of Hemagglutinin H13 from Avian Influenza A Virus H13N6. <i>Journal of Virology</i> , 2013, 87, 9077-9085. | 1.5 | 18 |
| 34 | N-glycan and sialylated N-glycan antigens, aberrant O-glycomics as human disease markers. <i>Proteomics - Clinical Applications</i> , 2013, 7, 618-631. | 0.8 | 131 |
| 35 | Microarray analysis of the human antibody response to synthetic <i>Cryptosporidium</i> glycopeptides. <i>International Journal for Parasitology</i> , 2013, 43, 901-907. | 1.3 | 22 |
| 36 | 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, 877-892. | 1.3 | 19 |

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|----|--|------|-----------|
| 37 | Glycoconjugates in Host-Helminth Interactions. <i>Frontiers in Immunology</i> , 2013, 4, 240. | 2.2 | 64 |
| 38 | Molecular Basis of 9G4 B Cell Autoreactivity in Human Systemic Lupus Erythematosus. <i>Journal of Immunology</i> , 2013, 191, 4926-4939. | 0.4 | 83 |
| 39 | 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. | 1.1 | 29 |
| 40 | Lectins Identify Glycan Biomarkers on Glioblastoma-Derived Cancer Stem Cells. <i>Stem Cells and Development</i> , 2012, 21, 2374-2386. | 1.1 | 30 |
| 41 | Deciphering Structural Elements of Mucin Glycoprotein Recognition. <i>ACS Chemical Biology</i> , 2012, 7, 1031-1039. | 1.6 | 53 |
| 42 | Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2012, 800, 163-171. | 0.4 | 14 |
| 43 | Probing Virus-Glycan Interactions Using Glycan Microarrays. <i>Methods in Molecular Biology</i> , 2012, 808, 251-267. | 0.4 | 25 |
| 44 | 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, 137-148. | 0.4 | 12 |
| 45 | Identification and Characterization of Endogenous Galectins Expressed in Madin Darby Canine Kidney Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 6780-6790. | 1.6 | 44 |
| 46 | Preparation and Analysis of Glycan Microarrays. <i>Current Protocols in Protein Science</i> , 2011, 64, Unit12.10. | 2.8 | 73 |
| 47 | Cancer vaccines and carbohydrate epitopes. <i>Vaccine</i> , 2011, 29, 8802-8826. | 1.7 | 203 |
| 48 | Shotgun glycomics: a microarray strategy for functional glycomics. <i>Nature Methods</i> , 2011, 8, 85-90. | 9.0 | 176 |
| 49 | Comparison of the receptor binding properties of contemporary swine isolates and early human pandemic H1N1 isolates (Novel 2009 H1N1). <i>Virology</i> , 2011, 413, 169-182. | 1.1 | 71 |
| 50 | GABRB3 gene expression increases upon ethanol exposure in human embryonic stem cells. <i>Journal of Receptor and Signal Transduction Research</i> , 2011, 31, 206-213. | 1.3 | 9 |
| 51 | Analysis of Influenza Virus Hemagglutinin Receptor Binding Mutants with Limited Receptor Recognition Properties and Conditional Replication Characteristics. <i>Journal of Virology</i> , 2011, 85, 12387-12398. | 1.5 | 55 |
| 52 | Derivatization of Free Natural Glycans for Incorporation onto Glycan Arrays: Derivatizing Glycans on the Microscale for Microarray and Other Applications. <i>Current Protocols in Chemical Biology</i> , 2011, 3, 53-63. | 1.7 | 13 |
| 53 | Low ethanol concentration alters CHRNA5 RNA levels during early human development. <i>Reproductive Toxicology</i> , 2010, 30, 489-492. | 1.3 | 16 |
| 54 | Innate immune lectins kill bacteria expressing blood group antigen. <i>Nature Medicine</i> , 2010, 16, 295-301. | 15.2 | 267 |

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|----|--|-----|-----------|
| 55 | 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, 362-369. | 0.5 | 15 |
| 56 | Development and Characterization of Antibodies to Carbohydrate Antigens. , 2009, 534, 341-357. | | 23 |
| 57 | Development, Characterization, and Immunotherapeutic Use of Peptide Mimics of the Thomsen-Friedenreich Carbohydrate Antigen. <i>Neoplasia</i> , 2009, 11, 780-792. | 2.3 | 38 |
| 58 | Heparin Binding Epidermal Growth Factor-Like Growth Factor and PD169316 Prevent Apoptosis in Mouse Embryonic Stem Cells. <i>Journal of Biochemistry</i> , 2008, 145, 177-184. | 0.9 | 12 |