

# Christopher W Cairo

## List of Articles by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Improved C5- <i>N</i> -Acetyl Neuraminidase 1 Inhibitors Based on 2-Deoxy-2,3-Didehydro- <i>N</i> -Acetyl Neuraminic Acid. <i>ChemMedChem</i> , 2025, 20, .	3.1	0
2	Multiplex bead immunoassay in ABO-A2-incompatible kidney transplantation. <i>American Journal of Transplantation</i> , 2025, 25, 1884-1894.	4.5	3
3	A Mild Protecting-Group Free Strategy for Neoglycoconjugate Synthesis. <i>Bioconjugate Chemistry</i> , 2025, 36, 1461-1473.	3.8	0
4	Convergent synthesis of a hexadecavalent heterobifunctional ABO blood group glycoconjugate. <i>Carbohydrate Research</i> , 2024, 535, 108988.	2.2	0
5	Facile synthesis of C5-azido derivatives of thiosialosides and 2,3-dehydro-5- <i>N</i> -acetylneuraminic acid (DANA). <i>Carbohydrate Research</i> , 2024, 536, 109013.	2.2	1
6	Bioisosteres at C9 of 2-Deoxy-2,3-didehydro- <i>N</i> -acetyl Neuraminic Acid Identify Selective Inhibitors of NEU3. <i>Journal of Medicinal Chemistry</i> , 2024, 67, 13594-13603.	5.6	5
7	Detection Strategies for Sialic Acid and Sialoglycoconjugates. <i>ChemBioChem</i> , 2024, 25, .	2.6	8
8	New insights into the glycobiology of immune thrombocytopenia. <i>Current Opinion in Hematology</i> , 2023, 30, 210-218.	2.8	7
9	Severe kidney dysfunction in sialidosis mice reveals an essential role for neuraminidase 1 in reabsorption. <i>JCI Insight</i> , 2023, 8, .	5.4	8
10	Inhibitors of Human Neuraminidase Enzymes Block Transmigration in vitro. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, .	3.5	5
11	The Janus-like role of neuraminidase isoenzymes in inflammation. <i>FASEB Journal</i> , 2022, 36, .	0.6	17
12	NEU1 and NEU3 enzymes alter CD22 organization on B cells. <i>Biophysical Reports</i> , 2022, 2, 100064.	1.2	3
13	Extending the in vivo persistence of synthetic glycoconjugates using a serum-protein binder. <i>RSC Chemical Biology</i> , 2022, 3, 1260-1275.	3.3	2
14	Therapeutic Effect of Neuraminidase-1 Selective Inhibition in Mouse Models of Bleomycin-Induced Pulmonary Inflammation and Fibrosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 136-146.	3.3	34
15	Neuraminidases 1 and 3 Trigger Atherosclerosis by Desialylating Low-Density Lipoproteins and Increasing Their Uptake by Macrophages. <i>Journal of the American Heart Association</i> , 2021, 10, .	4.0	58
16	Characterization of ABH-subtype donor-specific antibodies in ABO-A-incompatible kidney transplantation. <i>American Journal of Transplantation</i> , 2021, 21, 3649-3662.	4.5	32
17	Profiling of glycosphingolipids with SCDase digestion and HPLC-FLD-MS. <i>Analytical Biochemistry</i> , 2021, 631, 114361.	2.4	4
18	Human neuraminidases have reduced activity towards modified sialic acids on glycoproteins. <i>Carbohydrate Research</i> , 2020, 497, 108139.	2.2	9

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19	Isoenzyme-Selective Inhibitors of Human Neuraminidases Reveal Distinct Effects on Cell Migration. <i>ACS Chemical Biology</i> , 2020, 15, 1328-1339.	3.7	15
20	A quantitative, high-throughput method identifies protein-glycan interactions via mass spectrometry. <i>Communications Biology</i> , 2019, 2, .	4.4	26
21	Crystal structures of human lysosomal EPDR1 reveal homology with the superfamily of bacterial lipoprotein transporters. <i>Communications Biology</i> , 2019, 2, .	4.4	27
22	Neuraminidase-3 Is a Negative Regulator of LFA-1 Adhesion. <i>Frontiers in Chemistry</i> , 2019, 7, .	3.5	21
23	Selection of galectin-3 ligands derived from genetically encoded glycopeptide libraries. <i>Peptide Science</i> , 2019, 111, .	1.3	12
24	Human Neuraminidase Isoenzymes Show Variable Activities for 9-O-Acetyl-sialoside Substrates. <i>ACS Chemical Biology</i> , 2018, 13, 922-932.	3.7	30
25	Selective Inhibitors of Human Neuraminidase 3. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1990-2008.	5.6	58
26	Construction of Multivalent Homo- and Heterofunctional ABO Blood Group Glycoconjugates Using a Trifunctional Linker Strategy. <i>Bioconjugate Chemistry</i> , 2018, 29, 343-362.	3.8	18
27	MHC-Matched A-Expressing Blood Cells Induce ABO Tolerance in Infant and Adult Mice. <i>Transplantation</i> , 2018, 102, S292.	2.1	1
28	Selective Inhibitors of Human Neuraminidase 1 (NEU1). <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11261-11279.	5.6	64
29	A tyrosine sulfation-dependent HLA-I modification identifies memory B cells and plasma cells. <i>Science Advances</i> , 2018, 4, .	10.9	18
30	Persistent reduction in sialylation of cerebral glycoproteins following postnatal inflammatory exposure. <i>Journal of Neuroinflammation</i> , 2018, 15, .	9.0	25
31	Molecular dynamics simulations of viral neuraminidase inhibitors with the human neuraminidase enzymes: Insights into isoenzyme selectivity. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5349-5358.	2.6	33
32	Neuraminidase 1 activates insulin receptor and reverses insulin resistance in obese mice. <i>Molecular Metabolism</i> , 2018, 12, 76-88.	5.9	64
33	Synthetic Strategies for Modified Glycosphingolipids and Their Design as Probes. <i>Chemical Reviews</i> , 2018, 118, 8188-8241.	52.6	51
34	Blood Group A-Antigen Specific Tolerance Following Exposure to A-Antigen in Infant Mice. <i>Journal of Heart and Lung Transplantation</i> , 2017, 36, S49-S50.	1.1	0
35	Galectin-3 alters the lateral mobility and clustering of $\beta$ 1-integrin receptors. <i>PLoS ONE</i> , 2017, 12, e0184378.	2.3	31
36	ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. <i>American Journal of Transplantation</i> , 2016, 16, 1548-1558.	4.5	46

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37	Screening Glycolipids Against Proteins in Vitro Using Picodiscs and Catch-and-Release Electrospray Ionization-Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4742-4750.	6.5	26
38	Integrin-mediated cell migration is blocked by inhibitors of human neuraminidase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1170-1179.	2.4	18
39	Enhanced Cross-Linking of Diazirine-Modified Sialylated Glycoproteins Enabled through Profiling of Sialidase Specificities. <i>ACS Chemical Biology</i> , 2016, 11, 185-192.	3.7	23
40	Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. <i>Bioconjugate Chemistry</i> , 2016, 27, 705-715.	3.8	9
41	A FRET Probe for Cell-Based Imaging of Ganglioside-Processing Enzyme Activity and High-Throughput Screening. <i>Angewandte Chemie</i> , 2015, 127, 5479-5483.	1.4	10
42	A FRET Probe for Cell-Based Imaging of Ganglioside-Processing Enzyme Activity and High-Throughput Screening. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5389-5393.	14.4	46
43	Picodiscs for Facile Protein-Glycolipid Interaction Analysis. <i>Analytical Chemistry</i> , 2015, 87, 4402-4408.	6.5	29
44	Protecting group-free immobilization of glycans for affinity chromatography using glycosylsulfonohydrazide donors. <i>Carbohydrate Research</i> , 2015, 417, 109-116.	2.2	10
45	Mapping substrate interactions of the human membrane-associated neuraminidase, NEU3, using STD NMR. <i>Glycobiology</i> , 2015, 25, 284-293.	2.2	8
46	Detection of Diffusion Heterogeneity in Single Particle Tracking Trajectories Using a Hidden Markov Model with Measurement Noise Propagation. <i>PLoS ONE</i> , 2015, 10, e0140759.	2.3	50
47	Sialidase NEU4 is involved in glioblastoma stem cell survival. <i>Cell Death and Disease</i> , 2014, 5, e1381-e1381.	8.5	32
48	Practical Labeling Methodology for Choline-Derived Lipids and Applications in Live Cell Fluorescence Imaging. <i>Photochemistry and Photobiology</i> , 2014, 90, 686-695.	2.8	15
49	Synthesis of $\beta$ -brominated phosphonates and their application as phosphate bioisosteres. <i>MedChemComm</i> , 2014, 5, 1619-1633.	4.5	10
50	Conformational analysis of peramivir reveals critical differences between free and enzyme-bound states. <i>MedChemComm</i> , 2014, 5, 1483-1488.	4.5	7
51	Inhibitors of the human neuraminidase enzymes. <i>MedChemComm</i> , 2014, 5, 1067-1074.	4.5	39
52	Structural Basis for Substrate Specificity of Mammalian Neuraminidases. <i>PLoS ONE</i> , 2014, 9, e106320.	2.3	85
53	Identification of Selective Inhibitors for Human Neuraminidase Isoenzymes Using C4,C7-Modified 2-Deoxy-2,3-didehydro-N-acetylneuraminic Acid (DANA) Analogues. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2948-2958.	5.6	45
54	$\beta$ -Bromophosphonate analogs of glucose-6-phosphate are inhibitors of glucose-6-phosphatase. <i>Carbohydrate Research</i> , 2013, 381, 123-132.	2.2	6

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55	Mycobacterial Phenolic Glycolipids with a Simplified Lipid Aglycone Modulate Cytokine Levels through Toll-Like Receptor 2. <i>ChemBioChem</i> , 2013, 14, 2153-2159.	2.6	28
56	Identification of Selective Nanomolar Inhibitors of the Human Neuraminidase, NEU4. <i>ACS Medicinal Chemistry Letters</i> , 2013, 4, 532-537.	3.3	45
57	Glycoform Remodeling Generates a Synthetic T Cell Phenotype. <i>Bioconjugate Chemistry</i> , 2013, 24, 907-914.	3.8	1
58	Positive Regulation of Insulin Signaling by Neuraminidase 1. <i>Diabetes</i> , 2013, 62, 2338-2346.	4.2	87
59	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2935-2951.	3.0	105
60	5-(4-Hexyl-1H-1,2,3-triazol-1-yl)-2,1,3-benzoxadiazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3128-o3129.	0.2	2
61	5-(1-Benzyl-1H-1,2,3-triazol-4-yl)-2,1,3-benzoxadiazole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3130-o3131.	0.2	2
62	1-[1-(2,1,3-Benzoxadiazol-5-ylmethyl)-1H-1,2,3-triazol-4-yl]hexan-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o3132-o3132.	0.2	2
63	Detection of Cellular Sialic Acid Content Using Nitrobenzoxadiazole Carbonyl-Reactive Chromophores. <i>Bioconjugate Chemistry</i> , 2012, 23, 363-371.	3.8	52
64	Protein-Glycosphingolipid Interactions Revealed Using Catch-and-Release Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 7618-7621.	6.5	52
65	Substituted Benzoxadiazoles as Fluorogenic Probes: A Computational Study of Absorption and Fluorescence. <i>Journal of Physical Chemistry A</i> , 2012, 116, 46-54.	2.5	12
66	A Fluorogenic Aromatic Nucleophilic Substitution Reaction for Demonstrating Normal-Phase Chromatography and Isolation of Nitrobenzoxadiazole Chromophores. <i>Journal of Chemical Education</i> , 2011, 88, 98-100.	2.8	5
67	Analysis of Molecular Diffusion by First-Passage Time Variance Identifies the Size of Confinement Zones. <i>Biophysical Journal</i> , 2011, 100, 1463-1472.	2.2	24
68	Substrate Recognition of the Membrane-Associated Sialidase NEU3 Requires a Hydrophobic Aglycone. <i>Biochemistry</i> , 2011, 50, 6753-6762.	2.4	48
69	Identification of fluorogenic and quenched benzoxadiazole reactive chromophores. <i>Dyes and Pigments</i> , 2011, 88, 95-102.	3.9	24
70	Inhibitor selectivity of a new class of oseltamivir analogs against viral neuraminidase over human neuraminidase enzymes. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 2817-2822.	2.6	39
71	A protected l-bromophosphonomethylphenylalanine amino acid derivative (BrPmp) for synthesis of irreversible protein tyrosine phosphatase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 8679-8686.	2.6	27
72	Fluorescent small-molecule probes of biochemistry at the plasma membrane. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 57-63.	5.8	62

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73	Inhibition of human neuraminidase 3 (NEU3) by C9-triazole derivatives of 2,3-didehydro-N-acetyl-neuraminic acid. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 7529-7533.	2.0	36
74	Immobilization of carbohydrate epitopes for surface plasmon resonance using the Staudinger ligation. <i>Carbohydrate Research</i> , 2010, 345, 2641-2647.	2.2	8
75	Dynamic Regulation of CD45 Lateral Mobility by the Spectrin-Ankyrin Cytoskeleton of T Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 11392-11401.	2.2	49
76	Insight into substrate recognition and catalysis by the human neuraminidase 3 (NEU3) through molecular modeling and site-directed mutagenesis. <i>Glycobiology</i> , 2010, 20, 1127-1138.	2.2	57
77	Conjugation of Synthetic N-Acetyl-Lactosamine to Azide-Containing Proteins Using the Staudinger Ligation. <i>Bioconjugate Chemistry</i> , 2010, 21, 1842-1849.	3.8	25
78	A Monomeric Photoconvertible Fluorescent Protein for Imaging of Dynamic Protein Localization. <i>Journal of Molecular Biology</i> , 2010, 401, 776-791.	4.1	78
79	A Hidden Markov Model for Single Particle Tracks Quantifies Dynamic Interactions between LFA-1 and the Actin Cytoskeleton. <i>PLoS Computational Biology</i> , 2009, 5, e1000556.	3.1	130
80	Photophysical characterization of triazole-substituted coumarin fluorophores. <i>Dyes and Pigments</i> , 2009, 82, 196-203.	3.9	73
81	A Modular Synthesis of Alkynyl-Phosphocholine Headgroups for Labeling Sphingomyelin and Phosphatidylcholine. <i>Journal of Organic Chemistry</i> , 2009, 74, 8669-8674.	3.5	31
82	T cell adhesion mechanisms revealed by receptor lateral mobility. <i>Biopolymers</i> , 2008, 89, 409-419.	2.9	14
83	7,7- $\epsilon^2$ -(3,3- $\epsilon^2$ -Dibenzyl-3H,3- $\epsilon^2$ H-4,4- $\epsilon^2$ -bi-1,2,3-triazole-5,5- $\epsilon^2$ -diyl)bis(4-methyl-2H-chromen-2-one). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o1910-o1910.	0.2	4
84	Analysis of Two-Dimensional Dissociation Constant of Laterally Mobile Cell Adhesion Molecules. <i>Biophysical Journal</i> , 2007, 92, 1022-1034.	2.2	80
85	Mechanisms of Cellular Avidity Regulation in CD2 $\epsilon$ -CD58-Mediated T Cell Adhesion. <i>ACS Chemical Biology</i> , 2006, 1, 649-658.	3.7	46
86	Cytoskeletal Regulation Couples LFA-1 Conformational Changes to Receptor Lateral Mobility and Clustering. <i>Immunity</i> , 2006, 25, 297-308.	22.6	130
87	Control of Multivalent Interactions by Binding Epitope Density. <i>Journal of the American Chemical Society</i> , 2002, 124, 1615-1619.	15.0	387
88	Influencing Receptor $\sim$ Ligand Binding Mechanisms with Multivalent Ligand Architecture. <i>Journal of the American Chemical Society</i> , 2002, 124, 14922-14933.	15.0	688
89	Selective Immobilization of Multivalent Ligands for Surface Plasmon Resonance and Fluorescence Microscopy. <i>Analytical Biochemistry</i> , 2002, 305, 149-155.	2.4	71
90	Cell Aggregation by Scaffolded Receptor Clusters. <i>Chemistry and Biology</i> , 2002, 9, 163-169.	4.7	83

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91	Affinity-Based Inhibition of $\beta$ -Amyloid Toxicity. <i>Biochemistry</i> , 2002, 41, 8620-8629.	2.4	118
92	Designed potent multivalent chemoattractants for <i>Escherichia coli</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2387-2393.	2.6	36
93	Deoxygenated analogs of 2-deoxy-2,3-didehydro-N-acetyl neuraminic acid as inhibitors of human neuraminidase enzymes. <i>Carbohydrate Research</i> , 0, 558, 109691.	2.2	0