

Naoyuki Taniguchi

List of Publications by Year in Descending Order

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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.

504
papers

23,343
citations

78
h-index

118
g-index

525
ext. papers

25,350
ext. citations

5.3
avg, IF

6.44
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 504 | Role of glycosyltransferases in carcinogenesis; growth factor signaling and EMT/MET programs.. <i>Glycoconjugate Journal</i> , 2022 , 1 | 3 | 2 |
| 503 | Commentary for an article on an assay system for superoxide dismutase using autooxidation of hydroxylamine.. <i>Archives of Biochemistry and Biophysics</i> , 2022 , 109115 | 4.1 | |
| 502 | Obituary for Dr. William Lennarz.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 600, 51-53.4 | | |
| 501 | Extracellular Vesicles and Glycosylation. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1325, 137-149 | 3.69 | 0 |
| 500 | Advances in Glycation: from food to human health and disease. <i>Glycoconjugate Journal</i> , 2021 , 38, 273-275 | | |
| 499 | True significance of N-acetylglucosaminyltransferases GnT-III, V and β ,6 fucosyltransferase in epithelial-mesenchymal transition and cancer. <i>Molecular Aspects of Medicine</i> , 2021 , 79, 100905 | 16.7 | 11 |
| 498 | Glycans in Chronic Obstructive Pulmonary Disease (COPD) 2021 , 250-257 | | |
| 497 | Rab11-mediated post-Golgi transport of the sialyltransferase ST3GAL4 suggests a new mechanism for regulating glycosylation. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100354 | 5.4 | 2 |
| 496 | Keratan sulfate-based glycomimetics using Langerin as a target for COPD: lessons from studies on Fut8 and core fucose. <i>Biochemical Society Transactions</i> , 2021 , 49, 441-453 | 5.1 | 0 |
| 495 | Peptide Sequence Mapping around Bisecting GlcNAc-Bearing -Glycans in Mouse Brain. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 3 |
| 494 | Involvement of the Helical and Src homology 3 domains in the molecular assembly and enzymatic activity of human β ,6-fucosyltransferase, FUT8. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129596 | 4 | 6 |
| 493 | 3D Structure and Function of Glycosyltransferases Involved in -glycan Maturation. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 20 |
| 492 | Bisecting GlcNAc Is a General Suppressor of Terminal Modification of -glycan. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 2044-2057 | 7.6 | 36 |
| 491 | Oligosaccharyltransferase: A Gatekeeper of Health and Tumor Progression. <i>International Journal of Molecular Sciences</i> , 2019 , 20, | 6.3 | 25 |
| 490 | Core fucose is essential glycosylation for CD14-dependent Toll-like receptor 4 and Toll-like receptor 2 signalling in macrophages. <i>Journal of Biochemistry</i> , 2019 , 165, 227-237 | 3.1 | 15 |
| 489 | High affinity sugar ligands of C-type lectin receptor langerin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 1592-1601 | 4 | 19 |
| 488 | Glycosylation controls cooperative PECAM-VEGFR2- β integrin functions at the endothelial surface for tumor angiogenesis. <i>Oncogene</i> , 2018 , 37, 4287-4299 | 9.2 | 20 |

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| 487 | Metabolic control of T cell immune response through glycans in inflammatory bowel disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E4651-E4660 | 11.5 | 46 |
| 486 | Core Fucosylation of the T Cell Receptor Is Required for T Cell Activation. <i>Frontiers in Immunology</i> , 2018 , 9, 78 | 8.4 | 31 |
| 485 | Implication of C-type lectin receptor langerin and keratan sulfate disaccharide in emphysema. <i>Cellular Immunology</i> , 2018 , 333, 80-84 | 4.4 | 4 |
| 484 | Structure and mechanism of cancer-associated N-acetylglucosaminyltransferase-V. <i>Nature Communications</i> , 2018 , 9, 3380 | 17.4 | 44 |
| 483 | Neural functions of bisecting GlcNAc. <i>Glycoconjugate Journal</i> , 2018 , 35, 345-351 | 3 | 19 |
| 482 | Identification and characterization of UDP-mannose in human cell lines and mouse organs: Differential distribution across brain regions and organs. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 495, 401-407 | 3.4 | 6 |
| 481 | A keratan sulfate disaccharide prevents inflammation and the progression of emphysema in murine models. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017 , 312, L268-L276 | 5.8 | 17 |
| 480 | Alteration of N-glycan expression profile and glycan pattern of glycoproteins in human hepatoma cells after HCV infection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 1036-1045 | 4 | 19 |
| 479 | Reactivity of anti-HNK-1 antibodies to branched O-mannose glycans associated with demyelination. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 487, 450-456 | 3.4 | 5 |
| 478 | N-glycan and Alzheimer's disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2447-2454 | 4 | 63 |
| 477 | Cancer cell targeting driven by selective polyamine reactivity with glycine propargyl esters. <i>Chemical Communications</i> , 2017 , 53, 8403-8406 | 5.8 | 8 |
| 476 | The Inhibitory Role of α 6-Sialylation in Adipogenesis. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2278-2286 | 3.6 | 17 |
| 475 | An Alkynyl-Fucose Halts Hepatoma Cell Migration and Invasion by Inhibiting GDP-Fucose-Synthesizing Enzyme FX, TSTA3. <i>Cell Chemical Biology</i> , 2017 , 24, 1467-1478.e5 | 8.2 | 29 |
| 474 | Core fucose is critical for CD14-dependent Toll-like receptor 4 signaling. <i>Glycobiology</i> , 2017 , 27, 1006-1015 | 11.5 | 20 |
| 473 | Effect of spermine-derived AGEs on oxidative stress and polyamine metabolism. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6720-6724 | 3.9 | 3 |
| 472 | In Situ Ligation of High- and Low-Affinity Ligands to Cell Surface Receptors Enables Highly Selective Recognition. <i>Advanced Science</i> , 2017 , 4, 1700147 | 13.6 | 9 |
| 471 | Influence of SIGLEC9 polymorphisms on COPD phenotypes including exacerbation frequency. <i>Respirology</i> , 2017 , 22, 684-690 | 3.6 | 19 |
| 470 | Cell Imaging: In Situ Ligation of High- and Low-Affinity Ligands to Cell Surface Receptors Enables Highly Selective Recognition (Adv. Sci. 11/2017). <i>Advanced Science</i> , 2017 , 4, | 13.6 | 78 |

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|-----|---|------|----|
| 469 | Sialylation of extracellular superoxide dismutase (EC-SOD) enhances furin-mediated cleavage and secretion. <i>Glycobiology</i> , 2017 , 27, 1081-1088 | 5.8 | 1 |
| 468 | Lethality of mice bearing a knockout of the Ngly1-gene is partially rescued by the additional deletion of the Engase gene. <i>PLoS Genetics</i> , 2017 , 13, e1006696 | 6 | 41 |
| 467 | N-Glycosylation is essential for the secretion of extracellular superoxide dismutase. <i>FEBS Letters</i> , 2016 , 590, 3357-3367 | 3.8 | 13 |
| 466 | Atomic visualization of a flipped-back conformation of bisected glycans bound to specific lectins. <i>Scientific Reports</i> , 2016 , 6, 22973 | 4.9 | 32 |
| 465 | N-glycans of growth factor receptors: their role in receptor function and disease implications. <i>Clinical Science</i> , 2016 , 130, 1781-92 | 6.5 | 16 |
| 464 | High-Sensitivity and Low-Toxicity Fucose Probe for Glycan Imaging and Biomarker Discovery. <i>Cell Chemical Biology</i> , 2016 , 23, 782-792 | 8.2 | 26 |
| 463 | Advanced glycation in diabetes, aging and age-related diseases: editorial and dedication. <i>Glycoconjugate Journal</i> , 2016 , 33, 483-6 | 3 | 10 |
| 462 | A Reduction-Based Sensor for Acrolein Conjugates with the Inexpensive Nitrobenzene as an Alternative to Monoclonal Antibody. <i>Scientific Reports</i> , 2016 , 6, 35872 | 4.9 | 8 |
| 461 | Visualizing Trimming Dependence of Biodistribution and Kinetics with Homo- and Heterogeneous N-Glycoclusters on Fluorescent Albumin. <i>Scientific Reports</i> , 2016 , 6, 21797 | 4.9 | 46 |
| 460 | Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines : HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycoconjugate Journal</i> , 2016 , 33, 405-415 | 3 | 23 |
| 459 | Bisecting GlcNAc modification stabilizes BACE1 protein under oxidative stress conditions. <i>Biochemical Journal</i> , 2016 , 473, 21-30 | 3.8 | 44 |
| 458 | In vivo imaging of advanced glycation end products (AGEs) of albumin: first observations of significantly reduced clearance and liver deposition properties in mice. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 5755-60 | 3.9 | 1 |
| 457 | Core Fucosylation on T Cells, Required for Activation of T-Cell Receptor Signaling and Induction of Colitis in Mice, Is Increased in Patients With Inflammatory Bowel Disease. <i>Gastroenterology</i> , 2016 , 150, 1620-1632 | 13.3 | 58 |
| 456 | O-mannosylation and N-glycosylation: two coordinated mechanisms regulating the tumour suppressor functions of E-cadherin in cancer. <i>Oncotarget</i> , 2016 , 7, 65231-65246 | 3.3 | 23 |
| 455 | Enzymes for N-Glycan Branching and Their Genetic and Nongenetic Regulation in Cancer. <i>Biomolecules</i> , 2016 , 6, | 5.9 | 80 |
| 454 | Epigenetic regulation of neural N-glycomics. <i>Proteomics</i> , 2016 , 16, 2854-2863 | 4.8 | 17 |
| 453 | Glycation vs. glycosylation: a tale of two different chemistries and biology in Alzheimer's disease. <i>Glycoconjugate Journal</i> , 2016 , 33, 487-97 | 3 | 13 |
| 452 | Uncatalyzed Click Reaction between Phenyl Azides and Acrolein: 4-Formyl-1,2,3-Triazolines as Clicked Markers for Visualizations of Extracellular Acrolein Released from Oxidatively Stressed Cells. <i>ACS Sensors</i> , 2016 , 1, 623-632 | 9.2 | 17 |

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| 451 | Disease-associated glycans on cell surface proteins. <i>Molecular Aspects of Medicine</i> , 2016 , 51, 56-70 | 16.7 | 45 |
| 450 | Glyco-redox, a link between oxidative stress and changes of glycans: Lessons from research on glutathione, reactive oxygen and nitrogen species to glycobiology. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 595, 72-80 | 4.1 | 21 |
| 449 | Hyaluronan Production Regulates Metabolic and Cancer Stem-like Properties of Breast Cancer Cells via Hexosamine Biosynthetic Pathway-coupled HIF-1 Signaling. <i>Journal of Biological Chemistry</i> , 2016 , 291, 24105-24120 | 5.4 | 41 |
| 448 | An aberrant sugar modification of BACE1 blocks its lysosomal targeting in Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2015 , 7, 175-89 | 12 | 114 |
| 447 | Core fucosylation of IgG B cell receptor is required for antigen recognition and antibody production. <i>Journal of Immunology</i> , 2015 , 194, 2596-606 | 5.3 | 48 |
| 446 | Glycans and cancer: role of N-glycans in cancer biomarker, progression and metastasis, and therapeutics. <i>Advances in Cancer Research</i> , 2015 , 126, 11-51 | 5.9 | 228 |
| 445 | Fucosylated surfactant protein-D is a biomarker candidate for the development of chronic obstructive pulmonary disease. <i>Journal of Proteomics</i> , 2015 , 127, 386-94 | 3.9 | 20 |
| 444 | Cell surface and in vivo interaction of dendrimeric N-glycoclusters. <i>Glycoconjugate Journal</i> , 2015 , 32, 497-503 | 3 | 6 |
| 443 | Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4 | 5.8 | 585 |
| 442 | Expression of fucosyltransferase 8 is associated with an unfavorable clinical outcome in non-small cell lung cancers. <i>Oncology</i> , 2015 , 88, 298-308 | 3.6 | 37 |
| 441 | Golgi N-glycan branching N-acetylglucosaminyltransferases I, V and VI promote nutrient uptake and metabolism. <i>Glycobiology</i> , 2015 , 25, 225-40 | 5.8 | 29 |
| 440 | Loss of α 6-Fucosyltransferase Decreases Hippocampal Long Term Potentiation: IMPLICATIONS FOR CORE FUCOSYLATION IN THE REGULATION OF AMPA RECEPTOR HETEROMERIZATION AND CELLULAR SIGNALING. <i>Journal of Biological Chemistry</i> , 2015 , 290, 17566-75 | 5.4 | 31 |
| 439 | Identification of matrix metalloproteinase inhibitors by chemical arrays. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015 , 79, 1597-602 | 2.1 | 6 |
| 438 | Loss of α 6-fucosyltransferase suppressed liver regeneration: implication of core fucose in the regulation of growth factor receptor-mediated cellular signaling. <i>Scientific Reports</i> , 2015 , 5, 8264 | 4.9 | 30 |
| 437 | Defining the Interaction of Human Soluble Lectin ZG16p and Mycobacterial Phosphatidylinositol Mannosides. <i>ChemBioChem</i> , 2015 , 16, 1502-11 | 3.8 | 20 |
| 436 | Clec4g (LSEctin) interacts with BACE1 and suppresses A β generation. <i>FEBS Letters</i> , 2015 , 589, 1418-22 | 3.8 | 7 |
| 435 | Elevated O-GlcNAcylation promotes colonic inflammation and tumorigenesis by modulating NF- κ B signaling. <i>Oncotarget</i> , 2015 , 6, 12529-42 | 3.3 | 56 |
| 434 | Ceramide galactosyltransferase expression is regulated positively by Nkx2.2 and negatively by OLIG2. <i>Glycobiology</i> , 2014 , 24, 926-34 | 5.8 | 9 |

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| 433 | A circadian clock gene, Rev-erb β modulates the inflammatory function of macrophages through the negative regulation of Ccl2 expression. <i>Journal of Immunology</i> , 2014 , 192, 407-17 | 5.3 | 147 |
| 432 | Sweet role of platelet endothelial cell adhesion molecule in understanding angiogenesis. <i>Glycobiology</i> , 2014 , 24, 1260-4 | 5.8 | 17 |
| 431 | The absence of core fucose up-regulates GnT-III and Wnt target genes: a possible mechanism for an adaptive response in terms of glycan function. <i>Journal of Biological Chemistry</i> , 2014 , 289, 11704-11714 | 5.4 | 38 |
| 430 | Interaction of platelet endothelial cell adhesion molecule (PECAM) with α ,6-sialylated glycan regulates its cell surface residency and anti-apoptotic role. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27604-13 | 5.4 | 21 |
| 429 | A cascading reaction sequence involving ligand-directed azaelectrocyclization and autooxidation-induced fluorescence recovery enables visualization of target proteins on the surfaces of live cells. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 1412-8 | 3.9 | 10 |
| 428 | Synthesis of N-glycan units for assessment of substrate structural requirements of N-acetylglucosaminyltransferase III. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4533-4537 | 2.9 | 10 |
| 427 | Transglutaminase 2 accelerates neuroinflammation in amyotrophic lateral sclerosis through interaction with misfolded superoxide dismutase 1. <i>Journal of Neurochemistry</i> , 2014 , 128, 403-18 | 6 | 21 |
| 426 | Polyamine modification by acrolein exclusively produces 1,5-diazacyclooctanes: a previously unrecognized mechanism for acrolein-mediated oxidative stress. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 5151-7 | 3.9 | 15 |
| 425 | Association of serum interleukin-27 with the exacerbation of chronic obstructive pulmonary disease. <i>Physiological Reports</i> , 2014 , 2, e12069 | 2.6 | 11 |
| 424 | Chondroitin sulfate proteoglycan tenascin-R regulates glutamate uptake by adult brain astrocytes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2620-31 | 5.4 | 18 |
| 423 | Epigenetic regulation of a brain-specific glycosyltransferase N-acetylglucosaminyltransferase-IX (GnT-IX) by specific chromatin modifiers. <i>Journal of Biological Chemistry</i> , 2014 , 289, 11253-11261 | 5.4 | 39 |
| 422 | Mannosyl (Beta-1,4)-Glycoprotein Beta-1,4-N-Acetylglucosaminyltransferase (MGAT3); α ,4-N-Acetylglucosaminyltransferase III (GnT-III, GlcNAcT-III) 2014 , 209-222 | | 1 |
| 421 | Structural characterization of pyridylaminated oligosaccharides derived from neutral glycosphingolipids by high-sensitivity capillary electrophoresis-mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 7859-65 | 7.8 | 25 |
| 420 | Difucosylation of chitoooligosaccharides by eukaryote and prokaryote α ,6-fucosyltransferases. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 4482-90 | 4 | 8 |
| 419 | A solution 17O-NMR approach for observing an oxidized cysteine residue in Cu,Zn-superoxide dismutase. <i>Chemical Communications</i> , 2013 , 49, 1449-51 | 5.8 | 6 |
| 418 | Soluble amyloid precursor protein 770 is a novel biomarker candidate for acute coronary syndrome. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 657-63 | 3.1 | 2 |
| 417 | The interaction between Siglec-15 and tumor-associated sialyl-Tn antigen enhances TGF- β secretion from monocytes/macrophages through the DAP12-Syk pathway. <i>Glycobiology</i> , 2013 , 23, 178-87 | 5.8 | 115 |
| 416 | Flagellin/Toll-like receptor 5 response was specifically attenuated by keratan sulfate disaccharide via decreased EGFR phosphorylation in normal human bronchial epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 435, 460-5 | 3.4 | 20 |

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| 415 | Loss of Siglec-14 reduces the risk of chronic obstructive pulmonary disease exacerbation. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 3199-210 | 10.3 | 55 |
| 414 | E-cadherin and adherens-junctions stability in gastric carcinoma: functional implications of glycosyltransferases involving N-glycan branching biosynthesis, N-acetylglucosaminyltransferases III and V. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 2690-700 | 4 | 79 |
| 413 | N-Glycosylation modulates the membrane sub-domain distribution and activity of glucose transporter 2 in pancreatic beta cells. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 434, 346-51 | 3.4 | 42 |
| 412 | Loss of branched O-mannosyl glycans in astrocytes accelerates remyelination. <i>Journal of Neuroscience</i> , 2013 , 33, 10037-47 | 6.6 | 56 |
| 411 | A single dose of lipopolysaccharide into mice with emphysema mimics human chronic obstructive pulmonary disease exacerbation as assessed by micro-computed tomography. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 971-7 | 5.7 | 61 |
| 410 | Reevaluation of a lectin antibody ELISA kit for measuring fucosylated haptoglobin in various conditions. <i>Clinica Chimica Acta</i> , 2013 , 417, 48-53 | 6.2 | 29 |
| 409 | Metabolically programmed quality control system for dolichol-linked oligosaccharides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 19366-71 | 11.5 | 30 |
| 408 | Suppression of heregulin signaling by the single N-glycan deletion mutant of soluble ErbB3 protein. <i>Journal of Biological Chemistry</i> , 2013 , 288, 32910-21 | 5.4 | 15 |
| 407 | Mass isotopomer analysis of metabolically labeled nucleotide sugars and N- and O-glycans for tracing nucleotide sugar metabolisms. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2468-80 | 7.6 | 24 |
| 406 | Identification of ectonucleotide pyrophosphatase/phosphodiesterase 3 (ENPP3) as a regulator of N-acetylglucosaminyltransferase Gnt-IX (Gnt-Vb). <i>Journal of Biological Chemistry</i> , 2013 , 288, 27912-26 | 5.4 | 30 |
| 405 | Integrated approach toward the discovery of glyco-biomarkers of inflammation-related diseases. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1253, 159-69 | 6.5 | 30 |
| 404 | In vivo role of aldehyde reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 1787-96 | 4 | 24 |
| 403 | Core fucosylation of heavy chains regulates assembly and intracellular signaling of precursor B cell receptors. <i>Journal of Biological Chemistry</i> , 2012 , 287, 2500-8 | 5.4 | 19 |
| 402 | Development of an antibody-lectin enzyme immunoassay for fucosylated fetoprotein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 1405-11 | 4 | 19 |
| 401 | Identification of compounds that augment the lectin-sensitivity of Chinese Hamster Ovary cells. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 423, 429-35 | 3.4 | |
| 400 | α 6-Fucosyltransferase (Fut8) is implicated in vulnerability to elastase-induced emphysema in mice and a possible non-invasive predictive marker for disease progression and exacerbations in chronic obstructive pulmonary disease (COPD). <i>Biochemical and Biophysical Research Communications</i> , 2012 , 424, 112-7 | 3.4 | 20 |
| 399 | Visualizing specific protein glycoforms by transmembrane fluorescence resonance energy transfer. <i>Nature Communications</i> , 2012 , 3, 907 | 17.4 | 86 |
| 398 | Searching for partners. <i>Proteomics</i> , 2012 , 12, 9-10 | 4.8 | 0 |

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| 397 | Structural characterization of monosialo-, disialo- and trisialo-gangliosides by negative ion AP-MALDI-QIT-TOF mass spectrometry with MS(n) switching. <i>Neurochemical Research</i> , 2012 , 37, 1315-24 | 4.6 | 20 |
| 396 | Structural switching of Cu,Zn-superoxide dismutases at loop VI: insights from the crystal structure of 2-mercaptoethanol-modified enzyme. <i>Bioscience Reports</i> , 2012 , 32, 539-48 | 4.1 | 9 |
| 395 | Sensitivity of heterozygous α 1,6-fucosyltransferase knock-out mice to cigarette smoke-induced emphysema: implication of aberrant transforming growth factor- β signaling and matrix metalloproteinase gene expression. <i>Journal of Biological Chemistry</i> , 2012 , 287, 16699-708 | 5.4 | 45 |
| 394 | Soluble amyloid precursor protein 770 is released from inflamed endothelial cells and activated platelets: a novel biomarker for acute coronary syndrome. <i>Journal of Biological Chemistry</i> , 2012 , 287, 40817-25 | 5.4 | 37 |
| 393 | N-glycans of SREC-I (scavenger receptor expressed by endothelial cells): essential role for ligand binding, trafficking and stability. <i>Glycobiology</i> , 2012 , 22, 714-24 | 5.8 | 20 |
| 392 | Different consequences of reactions with hydrogen peroxide and t-butyl hydroperoxide in the hyperoxidative inactivation of rat peroxiredoxin-4. <i>Journal of Biochemistry</i> , 2011 , 149, 443-53 | 3.1 | 8 |
| 391 | Sexual dimorphism in LEC rat liver: suppression of carbonic anhydrase III by copper accumulation during hepatocarcinogenesis. <i>Biomedical Research</i> , 2011 , 32, 111-7 | 1.5 | 7 |
| 390 | Alteration in N-glycomics during mouse aging: a role for FUT8. <i>Aging Cell</i> , 2011 , 10, 1056-66 | 9.9 | 26 |
| 389 | N-Glycosylation profiling of recombinant mouse extracellular superoxide dismutase produced in Chinese hamster ovary cells. <i>Glycoconjugate Journal</i> , 2011 , 28, 183-96 | 3 | 6 |
| 388 | Modulation of E-cadherin function and dysfunction by N-glycosylation. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 1011-20 | 10.3 | 112 |
| 387 | Synthesis and evaluation of a radioiodinated trisaccharide derivative as a synthetic substrate for a sensitive N-acetylglucosaminyltransferase V radioassay. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 4312-21 | 3.4 | 6 |
| 386 | Hypoxic regulation of glycosylation via the N-acetylglucosamine cycle. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2011 , 48, 20-5 | 3.1 | 46 |
| 385 | Brain-specific expression of N-acetylglucosaminyltransferase IX (GnT-IX) is regulated by epigenetic histone modifications. <i>Journal of Biological Chemistry</i> , 2011 , 286, 31875-84 | 5.4 | 39 |
| 384 | Intracellular phosphatidylserine is essential for retrograde membrane traffic through endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15846-51 | 11.5 | 122 |
| 383 | Enhanced epithelial-mesenchymal transition-like phenotype in N-acetylglucosaminyltransferase V transgenic mouse skin promotes wound healing. <i>Journal of Biological Chemistry</i> , 2011 , 286, 28303-11 | 5.4 | 53 |
| 382 | Alpha1,6-fucosyltransferase-deficient mice exhibit multiple behavioral abnormalities associated with a schizophrenia-like phenotype: importance of the balance between the dopamine and serotonin systems. <i>Journal of Biological Chemistry</i> , 2011 , 286, 18434-43 | 5.4 | 60 |
| 381 | Branched N-glycans and their implications for cell adhesion, signaling and clinical applications for cancer biomarkers and in therapeutics. <i>BMB Reports</i> , 2011 , 44, 772-81 | 5.5 | 87 |
| 380 | Capillary Electrophoresis and Capillary Electrophoresis-Mass Spectrometry for Structural Analysis of N-Glycans Derived from Glycoproteins 2011 , 205-235 | | 7 |

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| 379 | Physiological and glycomic characterization of N-acetylglucosaminyltransferase-IVa and -IVb double deficient mice. <i>Glycobiology</i> , 2010 , 20, 485-97 | 5.8 | 42 |
| 378 | Comparison of methods for profiling O-glycosylation: Human Proteome Organisation Human Disease Glycomics/Proteome Initiative multi-institutional study of IgA1. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 719-27 | 7.6 | 126 |
| 377 | Palmitoylated Ras proteins traffic through recycling endosomes to the plasma membrane during exocytosis. <i>Journal of Cell Biology</i> , 2010 , 191, 23-9 | 7.3 | 73 |
| 376 | Alpha2,6-sialic acid on platelet endothelial cell adhesion molecule (PECAM) regulates its homophilic interactions and downstream antiapoptotic signaling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6515-21 | 5.4 | 83 |
| 375 | Brain endothelial cells produce amyloid {beta} from amyloid precursor protein 770 and preferentially secrete the O-glycosylated form. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40097-103 | 5.4 | 76 |
| 374 | Simultaneous determination of nucleotide sugars with ion-pair reversed-phase HPLC. <i>Glycobiology</i> , 2010 , 20, 865-71 | 5.8 | 106 |
| 373 | N-Glycosylation engineering of lepidopteran insect cells by the introduction of the beta1,4-N-acetylglucosaminyltransferase III gene. <i>Glycobiology</i> , 2010 , 20, 1147-59 | 5.8 | 25 |
| 372 | Involvement of ST6Gal I in the biosynthesis of a unique human colon cancer biomarker candidate, alpha2,6-sialylated blood group type 2H (ST2H) antigen. <i>Journal of Biochemistry</i> , 2010 , 148, 359-70 | 3.1 | 15 |
| 371 | Fucosylation of chitooligosaccharides by human alpha1,6-fucosyltransferase requires a nonreducing terminal chitotriose unit as a minimal structure. <i>Glycobiology</i> , 2010 , 20, 1021-33 | 5.8 | 21 |
| 370 | Protective effect of N-glycan bisecting GlcNAc residues on beta-amyloid production in Alzheimer's disease. <i>Glycobiology</i> , 2010 , 20, 99-106 | 5.8 | 63 |
| 369 | Inhibition of phospholamban phosphorylation by O-GlcNAcylation: implications for diabetic cardiomyopathy. <i>Glycobiology</i> , 2010 , 20, 1217-26 | 5.8 | 64 |
| 368 | Glycomic analyses of glycoproteins in bile and serum during rat hepatocarcinogenesis. <i>Journal of Proteome Research</i> , 2010 , 9, 4888-96 | 5.6 | 24 |
| 367 | Functional roles of the bisecting GlcNAc in integrin-mediated cell adhesion. <i>Methods in Enzymology</i> , 2010 , 480, 445-59 | 1.7 | 35 |
| 366 | Induction of protective immunity by vaccination with wild-type apo superoxide dismutase 1 in mutant SOD1 transgenic mice. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2010 , 69, 1044-56 ^{3.1} | 3.1 | 67 |
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