

Tongzhong Ju

List of Publications by Year in descending order

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63
papers

5,386
citations

147801

31
h-index

133252

59
g-index

68
all docs

68
docs citations

68
times ranked

5525
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Glycosylation in Cancer. Annual Review of Pathology: Mechanisms of Disease, 2015, 10, 473-510.	22.4	624
2	A unique molecular chaperone Cosmc required for activity of the mammalian core 1 β -galactosyltransferase. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16613-16618.	7.1	433
3	Increased susceptibility to colitis and colorectal tumors in mice lacking core 3 α -derived O-glycans. Journal of Experimental Medicine, 2007, 204, 1417-1429.	8.5	294
4	The Tn Antigen α Structural Simplicity and Biological Complexity. Angewandte Chemie - International Edition, 2011, 50, 1770-1791.	13.8	283
5	Innate immune lectins kill bacteria expressing blood group antigen. Nature Medicine, 2010, 16, 295-301.	30.7	267
6	Cloning and Expression of Human Core 1 β 1,3-Galactosyltransferase. Journal of Biological Chemistry, 2002, 277, 178-186.	3.4	258
7	Human Tumor Antigens Tn and Sialyl Tn Arise from Mutations in <i>Cosmc</i> . Cancer Research, 2008, 68, 1636-1646.	0.9	248
8	Chaperone mutation in Tn syndrome. Nature, 2005, 437, 1252-1252.	27.8	245
9	Endothelial cell O-glycan deficiency causes blood/lymphatic misconnections and consequent fatty liver disease in mice. Journal of Clinical Investigation, 2008, 118, 3725-3737.	8.2	216
10	A Novel Glycosulfopeptide Binds to P-selectin and Inhibits Leukocyte Adhesion to P-selectin. Journal of Biological Chemistry, 1999, 274, 24838-24848.	3.4	193
11	Simple Sugars to Complex Disease α Mucin-Type O-Glycans in Cancer. Advances in Cancer Research, 2015, 126, 53-135.	5.0	185
12	Cosmc is an essential chaperone for correct protein O-glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9228-9233.	7.1	181
13	Defective angiogenesis and fatal embryonic hemorrhage in mice lacking core 1 α -derived O-glycans. Journal of Cell Biology, 2004, 164, 451-459.	5.2	168
14	Versatile fluorescent derivatization of glycans for glycomic analysis. Nature Methods, 2005, 2, 845-850.	19.0	166
15	<i>Tn</i> and sialyl α Tn antigens, aberrant <i>O</i> -glycomics as human disease markers. Proteomics - Clinical Applications, 2013, 7, 618-631.	1.6	131
16	Regulation of protein O-glycosylation by the endoplasmic reticulum α localized molecular chaperone Cosmc. Journal of Cell Biology, 2008, 182, 531-542.	5.2	116
17	The Cosmc connection to the Tn antigen in cancer. Cancer Biomarkers, 2014, 14, 63-81.	1.7	115
18	Purification, Characterization, and Subunit Structure of Rat Core 1 β 1,3-Galactosyltransferase. Journal of Biological Chemistry, 2002, 277, 169-177.	3.4	105

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19	Galectin-1 Induces Reversible Phosphatidylserine Exposure at the Plasma Membrane. <i>Molecular Biology of the Cell</i> , 2009, 20, 1408-1418.	2.1	93
20	Platelet biogenesis and functions require correct protein O-glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16143-16148.	7.1	82
21	Cellular O-Glycome Reporter/Amplification to explore O-glycans of living cells. <i>Nature Methods</i> , 2016, 13, 81-86.	19.0	81
22	<i>Cosmc</i> is an X-linked inflammatory bowel disease risk gene that spatially regulates gut microbiota and contributes to sex-specific risk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14787-14792.	7.1	77
23	The Endoplasmic Reticulum Chaperone <i>Cosmc</i> Directly Promotes in Vitro Folding of T-synthase. <i>Journal of Biological Chemistry</i> , 2010, 285, 2456-2462.	3.4	63
24	Epigenetic Silencing of the Chaperone <i>Cosmc</i> in Human Leukocytes Expressing Tn Antigen. <i>Journal of Biological Chemistry</i> , 2012, 287, 41523-41533.	3.4	60
25	Deciphering Structural Elements of Mucin Glycoprotein Recognition. <i>ACS Chemical Biology</i> , 2012, 7, 1031-1039.	3.4	53
26	An atlas of O-linked glycosylation on peptide hormones reveals diverse biological roles. <i>Nature Communications</i> , 2020, 11, 4033.	12.8	46
27	Identification of core 1 O-glycan T-synthase from <i>Caenorhabditis elegans</i> . <i>Glycobiology</i> , 2006, 16, 947-958.	2.5	44
28	A Novel N-Tetrasaccharide in Patients with Congenital Disorders of Glycosylation, Including Asparagine-Linked Glycosylation Protein 1, Phosphomannomutase 2, and Mannose Phosphate Isomerase Deficiencies. <i>Clinical Chemistry</i> , 2016, 62, 208-217.	3.2	43
29	Differential expression of <i>Cosmc</i> , T-synthase and mucins in Tn-positive colorectal cancers. <i>BMC Cancer</i> , 2018, 18, 827.	2.6	42
30	A novel fluorescent assay for T-synthase activity. <i>Glycobiology</i> , 2011, 21, 352-362.	2.5	40
31	Tight Complex Formation between <i>Cosmc</i> Chaperone and Its Specific Client Non-native T-synthase Leads to Enzyme Activity and Client-driven Dissociation. <i>Journal of Biological Chemistry</i> , 2012, 287, 15317-15329.	3.4	32
32	Expedient chemoenzymatic synthesis of CD52 glycopeptide antigens. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5224.	2.8	31
33	Deletion of <i>Atbf1/Zfx3</i> in Mouse Prostate Causes Neoplastic Lesions, Likely by Attenuation of Membrane and Secretory Proteins and Multiple Signaling Pathways. <i>Neoplasia</i> , 2014, 16, 377-389.	5.3	31
34	Identification of Distinct Glycoforms of IgA1 in Plasma from Patients with Immunoglobulin A (IgA) Nephropathy and Healthy Individuals. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 3097-3113.	3.8	28
35	Systematic determination of the peptide acceptor preferences for the human UDP-Gal:glycoprotein-1 β -GalNAc T3 galactosyltransferase (T-synthase). <i>Glycobiology</i> , 2009, 19, 321-328.	2.5	26
36	O α -Glycans on death receptors in cells modulate their sensitivity to TRAIL α -induced apoptosis through affecting on their stability and oligomerization. <i>FASEB Journal</i> , 2020, 34, 11786-11801.	0.5	24

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37	Isotopic labeling with cellular O-glycome reporter/amplification (ICORA) for comparative O-glycomics of cultured cells. <i>Glycobiology</i> , 2018, 28, 214-222.	2.5	22
38	Identification of a Novel Protein Binding Motif within the T-synthase for the Molecular Chaperone Cosmc. <i>Journal of Biological Chemistry</i> , 2014, 289, 11630-11641.	3.4	21
39	The Transmembrane Domain of the Molecular Chaperone Cosmc Directs Its Localization to the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2011, 286, 11529-11542.	3.4	19
40	Cosmc controls B cell homing. <i>Nature Communications</i> , 2020, 11, 3990.	12.8	19
41	Promoters of Human Cosmc and T-synthase Genes Are Similar in Structure, Yet Different in Epigenetic Regulation. <i>Journal of Biological Chemistry</i> , 2015, 290, 19018-19033.	3.4	18
42	Identification of Tn Antigen O-GalNAc-expressing glycoproteins in human carcinomas using novel anti-Tn recombinant antibodies. <i>Glycobiology</i> , 2019, 30, 282-300.	2.5	18
43	A validated collection of mouse monoclonal antibodies to human glycosyltransferases functioning in mucin-type O-glycosylation. <i>Glycobiology</i> , 2019, 29, 645-656.	2.5	16
44	Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4274-4281.	2.4	14
45	Solid-phase synthesis of a pentavalent GalNAc-containing glycopeptide (Tn antigen) representing the nephropathy-associated IgA hinge region. <i>Carbohydrate Research</i> , 2010, 345, 1998-2003.	2.3	13
46	Amplification and Preparation of Cellular O-Glycomes for Functional Glycomics. <i>Analytical Chemistry</i> , 2020, 92, 10390-10401.	6.5	12
47	Variable Induction of Pro-Inflammatory Cytokines by Commercial SARS CoV-2 Spike Protein Reagents: Potential Impacts of LPS on In Vitro Modeling and Pathogenic Mechanisms In Vivo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7540.	4.1	12
48	A Fluorescence-Based Assay for Core 1 β 3Galactosyltransferase (T-Synthase) Activity. <i>Methods in Molecular Biology</i> , 2013, 1022, 15-28.	0.9	9
49	Comprehensive analysis of N-glycans in IgG purified from ferrets with or without influenza A virus infection. <i>Journal of Biological Chemistry</i> , 2018, 293, 19277-19289.	3.4	9
50	Synthesis and Characterization of Versatile O-Glycan Precursors for Cellular O-Glycomics. <i>ACS Synthetic Biology</i> , 2019, 8, 2507-2513.	3.8	7
51	Functional Assays for the Molecular Chaperone Cosmc. <i>Methods in Enzymology</i> , 2010, 479, 107-122.	1.0	6
52	Differential effects of bioreactor process variables and purification on the human recombinant lysosomal enzyme β -glucuronidase produced from Chinese hamster ovary cells. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6081-6095.	3.6	6
53	Zinc supplementation modulates intracellular metal uptake and oxidative stress defense mechanisms in CHO cell cultures. <i>Biochemical Engineering Journal</i> , 2021, 169, 107928.	3.6	5
54	<i>Cosmc</i> deficiency causes spontaneous autoimmunity by breaking B cell tolerance. <i>Science Advances</i> , 2021, 7, eabg9118.	10.3	5

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55	An etanercept O-glycovariant with enhanced potency. <i>Molecular Therapy - Methods and Clinical Development</i> , 2022, 25, 124-135.	4.1	5
56	Cellular O-Glycome Reporter/Amplification (CORA): Analytical and Preparative Tools to Study Mucin-Type O-Glycans of Living Cells. <i>Current Protocols</i> , 2021, 1, e142.	2.9	1
57	Novel Technologies for Quantitative O-Glycomics and Amplification/Preparation of Cellular O-Glycans. <i>Chemical Biology</i> , 2019, , 370-392.	0.2	1
58	Core 1 β 2Galactosyltransferase (C1GalT1, T-Synthase) and Its Specific Molecular Chaperone Cosmc (C1GalT1C1). , 2014, , 149-169.		1
59	Epigenetic silencing of the chaperone Cosmc in human leukocytes expressing Tn antigen.. <i>Journal of Biological Chemistry</i> , 2013, 288, 11505.	3.4	0
60	Cosmc Is Essential for O-Glycosylation of Platelet Glycoproteins and Platelet Function. <i>Blood</i> , 2010, 116, 383-383.	1.4	0
61	Cosmc Is Silenced in Human Tn4 B Cells through Hypermethylation of the Gene Promoter. <i>FASEB Journal</i> , 2012, 26, 928.7.	0.5	0
62	Human Cosmc and T-Synthase Genes Are Transcriptionally Regulated by SP1/SP3 Transcription Factors. <i>FASEB Journal</i> , 2012, 26, 931.13.	0.5	0
63	Molecular Regulation of Protein O-Glycosylation and Relevance to Disease and Development. <i>FASEB Journal</i> , 2013, 27, 211.1.	0.5	0