

Motoko Takahashi

List of Publications by Year in descending order

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92
papers

4,239
citations

117625

34
h-index

114465

63
g-index

93
all docs

93
docs citations

93
times ranked

4783
citing authors

#	ARTICLE	IF	CITATIONS
1	From The Cover: Dysregulation of TGF- β 1 receptor activation leads to abnormal lung development and emphysema-like phenotype in core fucose-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15791-15796.	7.1	413
2	Functional roles of N-glycans in cell signaling and cell adhesion in cancer. <i>Cancer Science</i> , 2008, 99, 1304-1310.	3.9	351
3	Core fucose and bisecting GlcNAc, the direct modifiers of the N-glycan core: their functions and target proteins. <i>Carbohydrate Research</i> , 2009, 344, 1387-1390.	2.3	203
4	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, 407-417.	0.8	190
5	Induction of Apoptotic Cell Death by Methylglyoxal and 3-Deoxyglucosone in Macrophage-Derived Cell Lines. <i>Biochemical and Biophysical Research Communications</i> , 1996, 225, 219-224.	2.1	175
6	Pulmonary collectins in innate immunity of the lung. <i>Cellular Microbiology</i> , 2007, 9, 1871-1879.	2.1	169
7	Introduction of Bisecting GlcNAc into Integrin α 5 β 1 Reduces Ligand Binding and Down-regulates Cell Adhesion and Cell Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 19747-19754.	3.4	162
8	Core fucosylation of E-cadherin enhances cell-cell adhesion in human colon carcinoma WiDr cells. <i>Cancer Science</i> , 2009, 100, 888-895.	3.9	111
9	Selective Induction of Heparin-binding Epidermal Growth Factor-like Growth Factor by Methylglyoxal and 3-Deoxyglucosone in Rat Aortic Smooth Muscle Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 18453-18459.	3.4	100
10	Overexpression of N-Acetylglucosaminyltransferase III Enhances the Epidermal Growth Factor-induced Phosphorylation of ERK in HeLaS3 Cells by Up-regulation of the Internalization Rate of the Receptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 11956-11962.	3.4	87
11	Identification of the Binding Site of Methylglyoxal on Glutathione Peroxidase: Methylglyoxal Inhibits Glutathione Peroxidase Activity via Binding to Glutathione Binding Sites Arg 184 and 185. <i>Free Radical Research</i> , 2003, 37, 205-211.	3.3	87
12	Pulmonary Surfactant Protein D Inhibits Lipopolysaccharide (LPS)-induced Inflammatory Cell Responses by Altering LPS Binding to Its Receptors. <i>Journal of Biological Chemistry</i> , 2008, 283, 35878-35888.	3.4	84
13	Acrolein Induces Cyclooxygenase-2 and Prostaglandin Production in Human Umbilical Vein Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1319-1325.	2.4	80
14	A glycomic approach to the identification and characterization of glycoprotein function in cells transfected with glycosyltransferase genes. <i>Proteomics</i> , 2001, 1, 239-247.	2.2	79
15	Isolation, Purification, and Characterization of Amadoriase Isoenzymes (Fructosyl Amine-oxygen) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.4	78
16	Elevation of aldose reductase gene expression in rat primary hepatoma and hepatoma cell lines: Implication in detoxification of cytotoxic aldehydes. <i>International Journal of Cancer</i> , 1995, 62, 749-754.	5.1	74
17	In vivo glycation of aldehyde reductase, a major 3-deoxyglucosone reducing enzyme: identification of glycation sites. <i>Biochemistry</i> , 1995, 34, 1433-1438.	2.5	73
18	Induction of thioredoxin reductase as an adaptive response to acrolein in human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 1058-1065.	2.1	71

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19	Role of N-glycans in growth factor signaling. <i>Glycoconjugate Journal</i> , 2003, 20, 207-212.	2.7	67
20	Glycation of Human .beta.2-Microglobulin in Patients with Hemodialysis-Associated Amyloidosis: Identification of the Glycated Sites. <i>Biochemistry</i> , 1994, 33, 12215-12221.	2.5	64
21	Disease-associated glycans on cell surface proteins. <i>Molecular Aspects of Medicine</i> , 2016, 51, 56-70.	6.4	64
22	Impaired diversity of the lung microbiome predicts progression of idiopathic pulmonary fibrosis. <i>Respiratory Research</i> , 2018, 19, 34.	3.6	64
23	The Effects of Exercise Training on Obesity-Induced Dysregulated Expression of Adipokines in White Adipose Tissue. <i>International Journal of Endocrinology</i> , 2013, 2013, 1-28.	1.5	63
24	Molecular Cloning and Expression of Amadoriase Isoenzyme (Fructosyl Amine:Oxygen Oxidoreductase,) Tj ETQq0 0,0,rgBT /Overlock 10	3.4	53
25	1,4-N-Acetylglucosaminyltransferase III down-regulates neurite outgrowth induced by costimulation of epidermal growth factor and integrins through the Ras/ERK signaling pathway in PC12 cells. <i>Glycobiology</i> , 2003, 14, 177-186.	2.5	52
26	N-glycan of ErbB family plays a crucial role in dimer formation and tumor promotion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 520-524.	2.4	52
27	The Asn418-Linked N-Glycan of ErbB3 Plays a Crucial Role in Preventing Spontaneous Heterodimerization and Tumor Promotion. <i>Cancer Research</i> , 2007, 67, 1935-1942.	0.9	51
28	Detection of N-glycosylated gangliosides in non-small-cell lung cancer using GMR8 monoclonal antibody. <i>Cancer Science</i> , 2013, 104, 43-47.	3.9	49
29	Spontaneous skin damage and delayed wound healing in SOD1-deficient mice. <i>Molecular and Cellular Biochemistry</i> , 2010, 341, 181-194.	3.1	48
30	Loss of Core Fucosylation of Low-Density Lipoprotein Receptor-Related Protein-1 Impairs Its Function, Leading to the Upregulation of Serum Levels of Insulin-Like Growth Factor-Binding Protein 3 in Fut8 ^{-/-} Mice. <i>Journal of Biochemistry</i> , 2006, 139, 391-398.	1.7	47
31	Aldehyde reductase gene expression by lipid peroxidation end products, MDA and HNE. <i>Free Radical Research</i> , 2000, 33, 739-746.	3.3	45
32	Cloning of Amadoriase I Isoenzyme from <i>Aspergillus</i> sp.: Evidence of FAD Covalently Linked to Cys342. <i>Biochemistry</i> , 2000, 39, 1515-1521.	2.5	45
33	Glycation and inactivation of sorbitol dehydrogenase in normal and diabetic rats. <i>Biochemical Journal</i> , 1996, 318, 119-123.	3.7	41
34	Pulmonary Collectins Protect Macrophages against Pore-forming Activity of <i>Legionella pneumophila</i> and Suppress Its Intracellular Growth. <i>Journal of Biological Chemistry</i> , 2010, 285, 8434-8443.	3.4	37
35	Glycation proceeds faster in mutated Cu, Zn-superoxide dismutases related to familial amyotrophic lateral sclerosis. <i>FASEB Journal</i> , 2003, 17, 1-18.	0.5	34
36	In vivo role of aldehyde reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1787-1796.	2.4	34

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37	Induction of Aldose Reductase Gene Expression in LEC Rats during the Development of the Hereditary Hepatitis and Hepatoma. Japanese Journal of Cancer Research, 1996, 87, 337-341.	1.7	33
38	Overexpression of the Aldose Reductase Gene Induces Apoptosis in Pancreatic β -Cells by Causing a Redox Imbalance. Journal of Biochemistry, 1999, 126, 41-47.	1.7	33
39	Down-regulation of Hydrogen Peroxide-induced PKC δ Activation in N-Acetylglucosaminyltransferase III-transfected HeLaS3 Cells. Journal of Biological Chemistry, 2003, 278, 3197-3203.	3.4	31
40	Osmotic Stress Induces HB-EGF Gene Expression via Ca ²⁺ /Pyk2/JNK Signal Cascades in Rat Aortic Smooth Muscle Cells. Journal of Biochemistry, 2001, 130, 351-358.	1.7	29
41	Localization and physiological implication of aldose reductase and sorbitol dehydrogenase in reproductive tracts and spermatozoa of male rats. Journal of Andrology, 2002, 23, 674-83.	2.0	29
42	Apolipoprotein E Activates Akt Pathway in Neuro-2a in an Isoform-Specific Manner. Biochemical and Biophysical Research Communications, 2002, 292, 83-87.	2.1	28
43	A secreted type of β 1,6 N-acetylglucosaminyltransferase V (GnT β V), a novel angiogenesis inducer, is regulated by β 3-secretase. FASEB Journal, 2006, 20, 2451-2459.	0.5	27
44	Pulmonary Surfactant Protein D Binds MD-2 through the Carbohydrate Recognition Domain. Biochemistry, 2008, 47, 12878-12885.	2.5	26
45	Fucosylated surfactant protein-D is a biomarker candidate for the development of chronic obstructive pulmonary disease. Journal of Proteomics, 2015, 127, 386-394.	2.4	25
46	<i>N</i> -glycans of growth factor receptors: their role in receptor function and disease implications. Clinical Science, 2016, 130, 1781-1792.	4.3	25
47	Overexpression of mutated Cu,Zn-SOD in neuroblastoma cells results in cytoskeletal change. American Journal of Physiology - Cell Physiology, 2005, 288, C253-C259.	4.6	24
48	Surfactant Protein D Inhibits Adherence of Uropathogenic Escherichia coli to the Bladder Epithelial Cells and the Bacterium-induced Cytotoxicity. Journal of Biological Chemistry, 2012, 287, 39578-39588.	3.4	24
49	Reductive detoxification of acrolein as a potential role for aldehyde reductase (AKR1A) in mammals. Biochemical and Biophysical Research Communications, 2014, 452, 136-141.	2.1	23
50	Acrolein induces Hsp72 via both PKC δ /JNK and calcium signaling pathways in human umbilical vein endothelial cells. Free Radical Research, 2005, 39, 507-512.	3.3	22
51	Pulmonary Collectins Play Distinct Roles in Host Defense against <i>Mycobacterium avium</i> . Journal of Immunology, 2011, 187, 2586-2594.	0.8	22
52	Suppression of Heregulin β 2 Signaling by the Single N-Glycan Deletion Mutant of Soluble ErbB3 Protein. Journal of Biological Chemistry, 2013, 288, 32910-32921.	3.4	22
53	Introduction of bisecting GlcNAc in N-glycans of adenyl cyclase III enhances its activity. Glycobiology, 2007, 17, 655-662.	2.5	20
54	Mannose binding lectin and lung collectins interact with Toll-like receptor 4 and MD-2 by different mechanisms. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1705-1710.	2.4	20

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55	Glycation vs. glycosylation: a tale of two different chemistries and biology in Alzheimer's disease. <i>Glycoconjugate Journal</i> , 2016, 33, 487-497.	2.7	20
56	Role of glycosyltransferases in carcinogenesis; growth factor signaling and EMT/MET programs. <i>Glycoconjugate Journal</i> , 2022, 39, 167-176.	2.7	19
57	Measurement of peroxiredoxin-4 serum levels in rat tissue and its use as a potential marker for hepatic disease. <i>Molecular Medicine Reports</i> , 2012, 6, 379-384.	2.4	18
58	The Internalization and Metabolism of 3-Deoxyglucosone in Human Umbilical Vein Endothelial Cells. <i>Journal of Biochemistry</i> , 2006, 139, 245-253.	1.7	17
59	Functional glycomics and evidence for gain- and loss-of-functions of target proteins for glycosyltransferases involved in N-glycan biosynthesis: their pivotal roles in growth and development, cancer metastasis and antibody therapy against cancer. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2004, 80, 82-91.	3.8	16
60	Disruption of the structural and functional features of surfactant protein A by acrolein in cigarette smoke. <i>Scientific Reports</i> , 2017, 7, 8304.	3.3	15
61	Colocalization of polyol-metabolizing enzymes and immunological detection of fructated proteins in the female reproductive system of the rat. <i>Histochemistry and Cell Biology</i> , 2003, 119, 309-315.	1.7	14
62	Gliclazide Inhibits Proliferation but Stimulates Differentiation of White and Brown Adipocytes. <i>Journal of Biochemistry</i> , 2007, 142, 639-645.	1.7	14
63	A Common Pathway for Intracellular Reactive Oxygen Species Production by Glycooxidative and Nitrooxidative Stress in Vascular Endothelial Cells and Smooth Muscle Cells. <i>Annals of the New York Academy of Sciences</i> , 2005, 1043, 521-528.	3.8	13
64	Pleiotropic Actions of Aldehyde Reductase (AKR1A). <i>Metabolites</i> , 2021, 11, 343.	2.9	13
65	Pulmonary Surfactant Protein A Protects Lung Epithelium from Cytotoxicity of Human β -Defensin 3. <i>Journal of Biological Chemistry</i> , 2012, 287, 15034-15043.	3.4	11
66	Surfactant Protein A Inhibits Growth and Adherence of Uropathogenic <i>Escherichia coli</i> To Protect the Bladder from Infection. <i>Journal of Immunology</i> , 2017, 198, 2898-2905.	0.8	11
67	N-glycosylation regulates MET processing and signaling. <i>Cancer Science</i> , 2022, 113, 1292-1304.	3.9	11
68	Different Immunoreactivity against Monoclonal Antibodies between Wild-type and Mutant Copper/Zinc Superoxide Dismutase Linked to Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 5061-5070.	3.4	10
69	Ascorbic acid reverses the prolonged anesthetic action of pentobarbital in Akr1a-knockout mice. <i>Life Sciences</i> , 2014, 95, 1-8.	4.3	10
70	Surfactant protein A down-regulates epidermal growth factor receptor by mechanisms different from those of surfactant protein D. <i>Journal of Biological Chemistry</i> , 2017, 292, 18565-18576.	3.4	9
71	Glycation of Proteins. , 2015, , 1339-1345.		9
72	The single N-glycan deletion mutant of soluble ErbB3 protein attenuates heregulin β 1-induced tumor progression by blocking of the HIF-1 and Nrf2 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2014, 454, 364-368.	2.1	7

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73	Physiological Relevance of Aldehyde Reductase and Aldose Reductase Gene Expression. <i>Advances in Experimental Medicine and Biology</i> , 1999, 463, 419-426.	1.6	7
74	Mice deficient in aldo-keto reductase 1a (Akr1a) are resistant to thioacetamide-induced liver injury. <i>Toxicology Letters</i> , 2018, 294, 37-43.	0.8	6
75	Insufficient serum L-ficolin is associated with disease presence and extent of pulmonary <i>Mycobacterium avium</i> complex disease. <i>Respiratory Research</i> , 2019, 20, 224.	3.6	6
76	Acrolein in cigarette smoke attenuates the innate immune responses mediated by surfactant protein D. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129699.	2.4	6
77	Mutational analysis of Cys88 of Toll-like receptor 4 highlights the critical role of MD-2 in cell surface receptor expression. <i>International Immunology</i> , 2009, 21, 925-934.	4.0	5
78	Surfactant protein A (SP-A) and SP-A-derived peptide attenuate chemotaxis of mast cells induced by human β -defensin 3. <i>Biochemical and Biophysical Research Communications</i> , 2017, 485, 107-112.	2.1	5
79	A Defect in the Mitochondrial Import of Mutant Mn-Superoxide Dismutase Produced in Sf21 Cells. <i>Journal of Biochemistry</i> , 1998, 124, 340-346.	1.7	3
80	Selective suppression of IgG2a subclass in LEC rats during development. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1200, 277-280.	2.4	1
81	Proteomic and glycomic analyses of a lung-specific protein surfactant protein-D. <i>Data in Brief</i> , 2015, 5, 707-711.	1.0	1
82	Maillard reaction in vivo and its relevance to diseases: editorial and dedication. <i>Glycoconjugate Journal</i> , 2021, 38, 277-281.	2.7	1
83	Functional Regulation of ErbB Receptors by N-Glycans. , 2014, , 1-6.		1
84	Localization and physiological implication of polyol-metabolizing enzymes in male and female reproductive systems of rat. <i>International Congress Series</i> , 2002, 1245, 363-364.	0.2	0
85	Inactivation of thioredoxin reductase by acrolein. <i>International Congress Series</i> , 2002, 1245, 433-434.	0.2	0
86	Glycation in Disease. , 2021, , 119-132.		0
87	Glycosyltransferase Genes: Applications to Medical Science.. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2000, 28, 217-232.	1.4	0
88	Amadoriase Isoenzymes (Fructosyl Amine: Oxygen Oxidoreductase EC 1.5.3) from <i>Aspergillus Fumigatus</i> . , 2005, , 28-34.		0
89	Glycation of Proteins. , 2014, , 1-7.		0
90	Functional Regulation of ErbB Receptors by N-Glycans. , 2015, , 983-989.		0

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91	Life-Style Related Disease and Aging. , 2019, , 269-288.		0
92	Analysis of N-glycan of Growth Factor Receptors. , 2008, , 351-354.		0