

# Motoko Takahashi

## List of Publications by Year in descending order

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92  
papers

4,239  
citations

117453

34  
h-index

114278

63  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of glycosyltransferases in carcinogenesis; growth factor signaling and EMT/MET programs. Glycoconjugate Journal, 2022, 39, 167-176.	1.4	19
2	Glycosylation regulates MET processing and signaling. Cancer Science, 2022, 113, 1292-1304.	1.7	11
3	Glycation in Disease. , 2021, , 119-132.		0
4	Maillard reaction in vivo and its relevance to diseases: editorial and dedication. Glycoconjugate Journal, 2021, 38, 277-281.	1.4	1
5	Pleiotropic Actions of Aldehyde Reductase (AKR1A). Metabolites, 2021, 11, 343.	1.3	13
6	Acrolein in cigarette smoke attenuates the innate immune responses mediated by surfactant protein D. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129699.	1.1	6
7	Insufficient serum L-ficolin is associated with disease presence and extent of pulmonary Mycobacterium avium complex disease. Respiratory Research, 2019, 20, 224.	1.4	6
8	Life-Style Related Disease and Aging. , 2019, , 269-288.		0
9	Mice deficient in aldo-keto reductase 1a (Akr1a) are resistant to thioacetamide-induced liver injury. Toxicology Letters, 2018, 294, 37-43.	0.4	6
10	Impaired diversity of the lung microbiome predicts progression of idiopathic pulmonary fibrosis. Respiratory Research, 2018, 19, 34.	1.4	64
11	Surfactant Protein A Inhibits Growth and Adherence of Uropathogenic <i>Escherichia coli</i> To Protect the Bladder from Infection. Journal of Immunology, 2017, 198, 2898-2905.	0.4	11
12	Surfactant protein A (SP-A) and SP-A-derived peptide attenuate chemotaxis of mast cells induced by human $\beta$ -defensin 3. Biochemical and Biophysical Research Communications, 2017, 485, 107-112.	1.0	5
13	Surfactant protein A down-regulates epidermal growth factor receptor by mechanisms different from those of surfactant protein D. Journal of Biological Chemistry, 2017, 292, 18565-18576.	1.6	9
14	Disruption of the structural and functional features of surfactant protein A by acrolein in cigarette smoke. Scientific Reports, 2017, 7, 8304.	1.6	15
15	Glycation vs. glycosylation: a tale of two different chemistries and biology in Alzheimer's disease. Glycoconjugate Journal, 2016, 33, 487-497.	1.4	20
16	Disease-associated glycans on cell surface proteins. Molecular Aspects of Medicine, 2016, 51, 56-70.	2.7	64
17	N-glycans of growth factor receptors: their role in receptor function and disease implications. Clinical Science, 2016, 130, 1781-1792.	1.8	25
18	Fucosylated surfactant protein-D is a biomarker candidate for the development of chronic obstructive pulmonary disease. Journal of Proteomics, 2015, 127, 386-394.	1.2	25

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19	Proteomic and glycomic analyses of a lung-specific protein surfactant protein-D. <i>Data in Brief</i> , 2015, 5, 707-711.	0.5	1
20	Glycation of Proteins. , 2015, , 1339-1345.		9
21	Functional Regulation of ErbB Receptors by N-Glycans. , 2015, , 983-989.		0
22	The single N-glycan deletion mutant of soluble ErbB3 protein attenuates heregulin $\hat{1}^2$ -induced tumor progression by blocking of the HIF-1 and Nrf2 pathway. <i>Biochemical and Biophysical Research Communications</i> , 2014, 454, 364-368.	1.0	7
23	A Circadian Clock Gene, <i>Rev-erb1<math>\pm</math></i> , Modulates the Inflammatory Function of Macrophages through the Negative Regulation of <i>Ccl2</i> Expression. <i>Journal of Immunology</i> , 2014, 192, 407-417.	0.4	190
24	Reductive detoxification of acrolein as a potential role for aldehyde reductase (AKR1A) in mammals. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 136-141.	1.0	23
25	Ascorbic acid reverses the prolonged anesthetic action of pentobarbital in <i>Akr1a</i> -knockout mice. <i>Life Sciences</i> , 2014, 95, 1-8.	2.0	10
26	Functional Regulation of ErbB Receptors by N-Glycans. , 2014, , 1-6.		1
27	Glycation of Proteins. , 2014, , 1-7.		0
28	Detection of N-glycosylated gangliosides in non-small-cell lung cancer using GMR8 monoclonal antibody. <i>Cancer Science</i> , 2013, 104, 43-47.	1.7	49
29	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.	0.6	63
30	Suppression of Heregulin $\hat{1}^2$ Signaling by the Single N-Glycan Deletion Mutant of Soluble ErbB3 Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 32910-32921.	1.6	22
31	Pulmonary Surfactant Protein A Protects Lung Epithelium from Cytotoxicity of Human $\hat{1}^2$ -Defensin 3. <i>Journal of Biological Chemistry</i> , 2012, 287, 15034-15043.	1.6	11
32	Surfactant Protein D Inhibits Adherence of Uropathogenic <i>Escherichia coli</i> to the Bladder Epithelial Cells and the Bacterium-induced Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2012, 287, 39578-39588.	1.6	24
33	In vivo role of aldehyde reductase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1787-1796.	1.1	34
34	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.	1.1	18
35	Pulmonary Collectins Play Distinct Roles in Host Defense against <i>Mycobacterium avium</i> . <i>Journal of Immunology</i> , 2011, 187, 2586-2594.	0.4	22
36	Spontaneous skin damage and delayed wound healing in SOD1-deficient mice. <i>Molecular and Cellular Biochemistry</i> , 2010, 341, 181-194.	1.4	48

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37	Pulmonary Collectins Protect Macrophages against Pore-forming Activity of Legionella pneumophila and Suppress Its Intracellular Growth. <i>Journal of Biological Chemistry</i> , 2010, 285, 8434-8443.	1.6	37
38	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.	1.8	5
39	Core fucosylation of E-cadherin enhances cell-cell adhesion in human colon carcinoma WiDr cells. <i>Cancer Science</i> , 2009, 100, 888-895.	1.7	111
40	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.	1.1	203
41	Mannose binding lectin and lung collectins interact with Toll-like receptor 4 and MD-2 by different mechanisms. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 1705-1710.	1.1	20
42	Functional roles of N-glycans in cell signaling and cell adhesion in cancer. <i>Cancer Science</i> , 2008, 99, 1304-1310.	1.7	351
43	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.	1.1	52
44	Pulmonary Surfactant Protein D Binds MD-2 through the Carbohydrate Recognition Domain. <i>Biochemistry</i> , 2008, 47, 12878-12885.	1.2	26
45	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.	1.6	84
46	Analysis of N-glycan of Growth Factor Receptors. , 2008, , 351-354.		0
47	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.	0.4	51
48	Acrolein Induces Cyclooxygenase-2 and Prostaglandin Production in Human Umbilical Vein Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1319-1325.	1.1	80
49	Introduction of bisecting GlcNAc in N-glycans of adenyl cyclase III enhances its activity. <i>Glycobiology</i> , 2007, 17, 655-662.	1.3	20
50	Gliclazide Inhibits Proliferation but Stimulates Differentiation of White and Brown Adipocytes. <i>Journal of Biochemistry</i> , 2007, 142, 639-645.	0.9	14
51	Pulmonary collectins in innate immunity of the lung. <i>Cellular Microbiology</i> , 2007, 9, 1871-1879.	1.1	169
52	The Internalization and Metabolism of 3-Deoxyglucosone in Human Umbilical Vein Endothelial Cells. <i>Journal of Biochemistry</i> , 2006, 139, 245-253.	0.9	17
53	A secreted type of $\beta$ 1,6 N-acetylglucosaminyltransferase V (GnT $\nu$ ), a novel angiogenesis inducer, is regulated by $\beta$ 3-secretase. <i>FASEB Journal</i> , 2006, 20, 2451-2459.	0.2	27
54	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.	0.9	47

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55	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.	1.8	13
56	Overexpression of mutated Cu,Zn-SOD in neuroblastoma cells results in cytoskeletal change. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 288, C253-C259.	2.1	24
57	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.	1.6	10
58	From The Cover: Dysregulation of TGF- $\beta$ 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.	3.3	413
59	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.	1.0	71
60	Acrolein induces Hsp72 via both PKC $\delta$ /JNK and calcium signaling pathways in human umbilical vein endothelial cells. <i>Free Radical Research</i> , 2005, 39, 507-512.	1.5	22
61	Amadoriase Isoenzymes (Fructosyl Amine: Oxygen Oxidoreductase EC 1.5.3) from <i>Aspergillus Fumigatus</i> . , 2005, , 28-34.		0
62	Introduction of Bisecting GlcNAc into Integrin $\alpha$ 5 $\beta$ 1 Reduces Ligand Binding and Down-regulates Cell Adhesion and Cell Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 19747-19754.	1.6	162
63	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.	1.6	16
64	Role of N-glycans in growth factor signaling. <i>Glycoconjugate Journal</i> , 2003, 20, 207-212.	1.4	67
65	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.	0.8	14
66	Down-regulation of Hydrogen Peroxide-induced PKC $\delta$ Activation in N-Acetylglucosaminyltransferase III-transfected HeLaS3 Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 3197-3203.	1.6	31
67	Glycation proceeds faster in mutated Cu, Zn-superoxide dismutases related to familial amyotrophic lateral sclerosis. <i>FASEB Journal</i> , 2003, 17, 1-18.	0.2	34
68	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.	1.5	87
69	$\beta$ 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.	1.3	52
70	Apolipoprotein E Activates Akt Pathway in Neuro-2a in an Isoform-Specific Manner. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 83-87.	1.0	28
71	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
72	Inactivation of thioredoxin reductase by acrolein. <i>International Congress Series</i> , 2002, 1245, 433-434.	0.2	0

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73	Localization and physiological implication of aldose reductase and sorbitol dehydrogenase in reproductive tracts and spermatozoa of male rats. <i>Journal of Andrology</i> , 2002, 23, 674-83.	2.0	29
74	Osmotic Stress Induces HB-EGF Gene Expression via Ca <sup>2+</sup> /Pyk2/JNK Signal Cascades in Rat Aortic Smooth Muscle Cells. <i>Journal of Biochemistry</i> , 2001, 130, 351-358.	0.9	29
75	A glycomic approach to the identification and characterization of glycoprotein function in cells transfected with glycosyltransferase genes. <i>Proteomics</i> , 2001, 1, 239-247.	1.3	79
76	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.	1.6	87
77	Aldehyde reductase gene expression by lipid peroxidation end products, MDA and HNE. <i>Free Radical Research</i> , 2000, 33, 739-746.	1.5	45
78	Cloning of Amadoriase I Isoenzyme from <i>Aspergillus</i> sp.: Evidence of FAD Covalently Linked to Cys342. <i>Biochemistry</i> , 2000, 39, 1515-1521.	1.2	45
79	Glycosyltransferase Genes: Applications to Medical Science.. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2000, 28, 217-232.	0.6	0
80	Overexpression of the Aldose Reductase Gene Induces Apoptosis in Pancreatic $\beta$ -Cells by Causing a Redox Imbalance. <i>Journal of Biochemistry</i> , 1999, 126, 41-47.	0.9	33
81	Physiological Relevance of Aldehyde Reductase and Aldose Reductase Gene Expression. <i>Advances in Experimental Medicine and Biology</i> , 1999, 463, 419-426.	0.8	7
82	A Defect in the Mitochondrial Import of Mutant Mn-Superoxide Dismutase Produced in Sf21 Cells. <i>Journal of Biochemistry</i> , 1998, 124, 340-346.	0.9	3
83	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.	1.6	100
84	Isolation, Purification, and Characterization of Amadoriase Isoenzymes (Fructosyl Amine-oxygen) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 3	1.6	78
85	Molecular Cloning and Expression of Amadoriase Isoenzyme (Fructosyl Amine:Oxygen Oxidoreductase,) Tj ETQq1 1,0,784314 rgBT / O	1.6	53
86	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.	1.0	175
87	Glycation and inactivation of sorbitol dehydrogenase in normal and diabetic rats. <i>Biochemical Journal</i> , 1996, 318, 119-123.	1.7	41
88	Induction of Aldose Reductase Gene Expression in LEC Rats during the Development of the Hereditary Hepatitis and Hepatoma. <i>Japanese Journal of Cancer Research</i> , 1996, 87, 337-341.	1.7	33
89	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.	2.3	74
90	In vivo glycation of aldehyde reductase, a major 3-deoxyglucosone reducing enzyme: identification of glycation sites. <i>Biochemistry</i> , 1995, 34, 1433-1438.	1.2	73

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91	Selective suppression of IgG2a subclass in LEC rats during development. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1994, 1200, 277-280.	1.1	1
92	Glycation of Human .beta.2-Microglobulin in Patients with Hemodialysis-Associated Amyloidosis: Identification of the Glycated Sites. <i>Biochemistry</i> , 1994, 33, 12215-12221.	1.2	64