Morihisa Fujita

List of Publications by Year
in descending order

61 papers	2,500 citations	236925 25 h-index	206112 48 g-index
66 all docs	66 docs citations	66 times ranked	2854 citing authors

#	Article	IF	Citations
1	Biosynthesis, Remodelling and Functions of Mammalian GPI-anchored Proteins: Recent Progress. Journal of Biochemistry, 2008, 144, 287-294.	1.7	245
2	Thematic Review Series: Glycosylphosphatidylinositol (GPI) Anchors: Biochemistry and Cell Biology Biosynthesis of GPI-anchored proteins: special emphasis on GPI lipid remodeling. Journal of Lipid Research, 2016, 57, 6-24.	4.2	207
3	Fatty Acid Remodeling of GPI-anchored Proteins Is Required for Their Raft Association. Molecular Biology of the Cell, 2007, 18, 1497-1506.	2.1	177
4	GPI-anchor remodeling: Potential functions of GPI-anchors in intracellular trafficking and membrane dynamics. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 1050-1058.	2.4	174
5	GPI Glycan Remodeling by PGAP5 Regulates Transport of GPI-Anchored Proteins from the ER to the Golgi. Cell, 2009, 139, 352-365.	28.9	137
6	Sorting of GPI-anchored proteins into ER exit sites by p24 proteins is dependent on remodeled GPI. Journal of Cell Biology, 2011, 194, 61-75.	5.2	115
7	Lipid remodeling of GPI-anchored proteins and its function. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 410-420.	2.4	105
8	PER1 Is Required for GPI-Phospholipase A2 Activity and Involved in Lipid Remodeling of GPI-anchored Proteins. Molecular Biology of the Cell, 2006, 17, 5253-5264.	2.1	103
9	Structural remodeling of GPI anchors during biosynthesis and after attachment to proteins. FEBS Letters, 2010, 584, 1670-1677.	2.8	95
10	Post-Golgi anterograde transport requires GARP-dependent endosome-to-TGN retrograde transport. Molecular Biology of the Cell, 2015, 26, 3071-3084.	2.1	88
11	Inositol Deacylation by Bst1p Is Required for the Quality Control of Glycosylphosphatidylinositol-anchored Proteins. Molecular Biology of the Cell, 2006, 17, 834-850.	2.1	86
12	Chitosan-Functionalized Graphene Oxide as a Potential Immunoadjuvant. Nanomaterials, 2017, 7, 59.	4.1	73
13	<i>Saccharomyces cerevisiae CWH43</i>Is Involved in the Remodeling of the Lipid Moiety of GPI Anchors to Ceramides. Molecular Biology of the Cell, 2007, 18, 4304-4316.	2.1	65
14	Graphene oxide-chitosan nanocomposites for intracellular delivery of immunostimulatory CpG oligodeoxynucleotides. Materials Science and Engineering C, 2017, 73, 144-151.	7.3	63
15	<i>N</i>-Glycanâ€“dependent protein folding and endoplasmic reticulum retention regulate GPI-anchor processing. Journal of Cell Biology, 2018, 217, 585-599.	5.2	51
16	O-Mannosylation is Required for Degradation of the Endoplasmic Reticulum-associated Degradation Substrate Gas1*p via the Ubiquitin/Proteasome Pathway in Saccharomyces cerevisiae. Journal of Biochemistry, 2007, 143, 555-567.	1.7	47
17	Global mapping of glycosylation pathways in human-derived cells. Developmental Cell, 2021, 56, 1195-1209.e7.	7.0	46
18	3D Structure and Interaction of p24Î² and p24Î´ Golgi Dynamics Domains: Implication for p24 Complex Formation and Cargo Transport. Journal of Molecular Biology, 2016, 428, 4087-4099.	4.2	38

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19	Cross-talks of glycosylphosphatidylinositol biosynthesis with glycosphingolipid biosynthesis and ER-associated degradation. Nature Communications, 2020, 11, 860.	12.8	38
20	Identification of a Golgi GPI-N-acetylgalactosamine transferase with tandem transmembrane regions in the catalytic domain. Nature Communications, 2018, 9, 405.	12.8	37
21	Biogenesis of GPI-anchored proteins is essential for surface expression of sodium channels in zebrafish Rohon-Beard neurons to respond to mechanosensory stimulation. Development (Cambridge), 2010, 137, 1689-1698.	2.5	36
22	A GPI processing phospholipase A2, PGAP6, modulates Nodal signaling in embryos by shedding CRIPTO. Journal of Cell Biology, 2016, 215, 705-718.	5.2	36
23	Mammalian GPI-anchor modifications and the enzymes involved. Biochemical Society Transactions, 2020, 48, 1129-1138.	3.4	33
24	Transport of glycosylphosphatidylinositol-anchored proteins from the endoplasmic reticulum. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2473-2478.	4.1	31
25	Genetic disruption of multiple Î±1,2-mannosidases generates mammalian cells producing recombinant proteins with high-mannoseâ€“type N-glycans. Journal of Biological Chemistry, 2018, 293, 5572-5584.	3.4	30
26	The Î±-Helical Region in p24Î³2 Subunit of p24 Protein Cargo Receptor Is Pivotal for the Recognition and Transport of Glycosylphosphatidylinositol-anchored Proteins. Journal of Biological Chemistry, 2014, 289, 16835-16843.	3.4	29
27	Comprehensive Analysis of the Glycome and Glycoproteome of Bovine Milk-Derived Exosomes. Journal of Agricultural and Food Chemistry, 2020, 68, 12692-12701.	5.2	29
28	Free, unlinked glycosylphosphatidylinositols on mammalian cell surfaces revisited. Journal of Biological Chemistry, 2019, 294, 5038-5049.	3.4	27
29	Defective lipid remodeling of GPI anchors in peroxisomal disorders, Zellweger syndrome, and rhizomelic chondrodysplasia punctata. Journal of Lipid Research, 2012, 53, 653-663.	4.2	23
30	A knockout cell library of GPI biosynthetic genes for functional studies of GPI-anchored proteins. Communications Biology, 2021, 4, 777.	4.4	20
31	Genome-Wide Screening of Genes Required for Glycosylphosphatidylinositol Biosynthesis. PLoS ONE, 2015, 10, e0138553.	2.5	19
32	Glycoengineering of HEK293 cells to produce high-mannose-type N-glycan structures. Journal of Biochemistry, 2019, 166, 245-258.	1.7	18
33	Calnexin mediates the maturation of GPI-anchors through ER retention. Journal of Biological Chemistry, 2020, 295, 16393-16410.	3.4	18
34	Alternative routes for synthesis of Nâ€linked glycans by Alg2 mannosyltransferase. FASEB Journal, 2018, 32, 2492-2506.	0.5	15
35	Novel Insight Into Glycosaminoglycan Biosynthesis Based on Gene Expression Profiles. Frontiers in Cell and Developmental Biology, 2021, 9, 709018.	3.7	15
36	MON2 Guides Wntless Transport to the Golgi through Recycling Endosomes. Cell Structure and Function, 2020, 45, 77-92.	1.1	13

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37	Human SND2 mediates ER targeting of GPIâ€anchored proteins with low hydrophobic GPI attachment signals. FEBS Letters, 2021, 595, 1542-1558.	2.8	13
38	PGAP6, a GPI-specific phospholipase A2, has narrow substrate specificity against GPI-anchored proteins. Journal of Biological Chemistry, 2020, 295, 14501-14509.	3.4	12
39	Glycosylphosphatidylinositol mannosyltransferase II is the rate-limiting enzyme in glycosylphosphatidylinositol biosynthesis under limited dolichol-phosphate mannose availability. Journal of Biochemistry, 2013, 154, 257-264.	1.7	11
40	Molecular switching system using glycosylphosphatidylinositol to select cells highly expressing recombinant proteins. Scientific Reports, 2017, 7, 4033.	3.3	11
41	Establishment of DHFR-deficient HEK293 cells for high yield of therapeutic glycoproteins. Journal of Bioscience and Bioengineering, 2019, 128, 487-494.	2.2	11
42	Crystallographic analysis of murine p24Î³2 Golgi dynamics domain. Proteins: Structure, Function and Bioinformatics, 2017, 85, 764-770.	2.6	10
43	Structural and functional analysis of Alg1 beta-1,4 mannosyltransferase reveals the physiological importance of its membrane topology. Glycobiology, 2018, 28, 741-753.	2.5	10
44	Genome-wide CRISPR screen reveals CLPTM1L as a lipid scramblase required for efficient glycosylphosphatidylinositol biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115083119.	7.1	10
45	Cell engineering for the production of hybrid-type N-glycans in HEK293 cells. Journal of Biochemistry, 2021, 170, 139-151.	1.7	7
46	Construction of green fluorescence protein mutant to monitor STT 3Bâ€dependent N â€glycosylation. FEBS Journal, 2018, 285, 915-928.	4.7	6
47	Functional Analysis of the GPI Transamidase Complex by Screening for Amino Acid Mutations in Each Subunit. Molecules, 2021, 26, 5462.	3.8	5
48	Yeast Dop1 is required for glycosyltransferase retrieval from the trans-Golgi network. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1147-1157.	2.4	4
49	Chapter 1 Overview of GPI Biosynthesis. The Enzymes, 2009, 26, 1-30.	1.7	2
50	PiggyBac-based screening identified BEM4 as a suppressor to rescue growth defects in och1-disrupted yeast cells. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1497-1507.	1.3	2
51	Aberration of Serum and Tissue N-Glycans in Mouse Î²1,4-GalT1 Y286L Mutant Variants. Glycoconjugate Journal, 2020, 37, 767-775.	2.7	2
52	Potential Roles of GPI-Anchor Remodeling in Protein Trafficking and Raft Association in Mammalian Cells. Trends in Glycoscience and Glycotechnology, 2012, 24, 244-257.	0.1	1
53	GPI-Anchor: Update for Biosynthesis and Remodeling. Trends in Glycoscience and Glycotechnology, 2010, 22, 182-193.	0.1	1
54	Biosynthesis of GPI-anchored proteins is essential for surface expression of sodium channels in zebrafish Rohon-Beard neurons to respond to mechanosensory stimulation. Neuroscience Research, 2010, 68, e75.	1.9	0

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55	Selecting cells expressing high levels of recombinant proteins using the GPI-anchored protein with selenocysteine system. Journal of Bioscience and Bioengineering, 2021, 131, 225-233.	2.2	0
56	Sulfation of a FLAG tag mediated by SLC35B2 and TPST2 affects antibody recognition. PLoS ONE, 2021, 16, e0250805.	2.5	0
57	Glycosylphosphatidylinositol Anchors and Lipids. , 2021, , 103-116.		0
58	Glycan-Mediated Protein Transport from the Endoplasmic Reticulum. , 2015, , 21-34.		0
59	Structural Remodeling and Shedding of GPI-Anchors. Trends in Glycoscience and Glycotechnology, 2019, 31, SE71-SE73.	0.1	0
60	Structural Remodeling and Shedding of GPI-Anchors. Trends in Glycoscience and Glycotechnology, 2019, 31, SJ71-SJ73.	0.1	0
61	C18orf32 loss-of-function is associated with a neurodevelopmental disorder with hypotonia and contractures. Human Genetics, 2022, , 1.	3.8	0