

# Ryo Misaki

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

605  
citations

687363

13  
h-index

642732

23  
g-index

45  
all docs

45  
docs citations

45  
times ranked

747  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Plant cultured cells expressing human beta1,4-galactosyltransferase secrete glycoproteins with galactose-extended N-linked glycans. <i>Glycobiology</i> , 2003, 13, 199-205.  | 2.5 | 48        |
| 2  | Expression of human CMP-N-acetylneuraminic acid synthetase and CMP-sialic acid transporter in tobacco suspension-cultured cell. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 1184-1189.                                | 2.1 | 42        |
| 3  | Dengue virus neutralization and antibody-dependent enhancement activities of human monoclonal antibodies derived from dengue patients at acute phase of secondary infection. <i>Antiviral Research</i> , 2013, 98, 423-431.                       | 4.1 | 41        |
| 4  | The production of human glucocerebrosidase in glycoengineered <i>Nicotiana benthamiana</i> plants. <i>Plant Biotechnology Journal</i> , 2016, 14, 1682-1694.  | 8.3 | 36        |
| 5  | Delta-9 fatty acid desaturase overexpression enhanced lipid production and oleic acid content in <i>Rhodospiridium toruloides</i> for preferable yeast lipid production. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 430-440.    | 2.2 | 36        |
| 6  | Glycoproteins Secreted from Suspension-cultured Tobacco BY2 Cells have Distinct Glycan Structures from Intracellular Glycoproteins. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 2482-2488.                                      | 1.3 | 31        |
| 7  | Sialylation potentials of the silkworm, <i>Bombyx mori</i> ; <i>B. mori</i> possesses an active $\beta$ 2,6-sialyltransferase. <i>Glycobiology</i> , 2015, 25, 1441-1453.   | 2.5 | 31        |
| 8  | <i>Arabidopsis</i> $\beta$ 1,2-xylosyltransferase: Substrate specificity and participation in the plant-specific N-glycosylation pathway. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 48-54.                                     | 2.2 | 30        |
| 9  | Substrate preference of citrus naringenin rhamnosyltransferases and their application to flavonoid glycoside production in fission yeast. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 687-696.                                     | 3.6 | 30        |
| 10 | N-linked glycan structures of mouse interferon- $\beta$ produced by <i>Bombyx mori</i> larvae. <i>Biochemical and Biophysical Research Communications</i> , 2003, 311, 979-986.   | 2.1 | 28        |
| 11 | The combination of plant translational enhancers and terminator increase the expression of human glucocerebrosidase in <i>Nicotiana benthamiana</i> plants. <i>Plant Science</i> , 2015, 240, 41-49.  | 3.6 | 24        |
| 12 | Development of a sufficient and effective procedure for transformation of an oleaginous yeast, <i>Rhodospiridium toruloides</i> DMKU3-TK16. <i>Current Genetics</i> , 2017, 63, 359-371.  | 1.7 | 21        |
| 13 | Core-fucosylation plays a pivotal role in hepatitis B pseudo virus infection: a possible implication for HBV glycotherapy. <i>Glycobiology</i> , 2016, 26, 1180-1189.   | 2.5 | 17        |
| 14 | Production of initial-stage eukaryotic N-glycan and its protein glycosylation in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 399-405.  | 2.2 | 14        |
| 15 | Ethanol and H <sub>2</sub> O <sub>2</sub> stresses enhance lipid production in an oleaginous <i>Rhodotorula toruloides</i> thermotolerant mutant L1-1. <i>FEMS Yeast Research</i> , 2020, 20, .   | 2.3 | 13        |
| 16 | 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.   | 3.4 | 13        |
| 17 | Functional characterization and overexpression of $\Delta$ 12-desaturase in the oleaginous yeast <i>Rhodotorula toruloides</i> for production of linoleic acid-rich lipids. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 631-639. | 2.2 | 13        |
| 18 | Transcriptome sequencing and identification of cytochrome P450 monooxygenases involved in the biosynthesis of maslinic acid and corosolic acid in <i>Avicennia marina</i> . <i>Plant Biotechnology</i> , 2018, 35, 341-348.                       | 1.0 | 11        |

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|----|--|-----|-----------|
| 19 | Enhancement of glycosylation by stable co-expression of two sialylation-related enzymes on Chinese hamster ovary cells. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 102-110.                      | 2.2 | 10        |
| 20 | The Production of Human $\beta$ -Glucocerebrosidase in <i>Nicotiana benthamiana</i> Root Culture. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1972.   | 4.1 | 10        |
| 21 | N-terminal vacuolar sorting signal at the mouse antibody alters the N-linked glycosylation pattern in suspension-cultured tobacco BY2 cells. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 476-484. | 2.2 | 9         |
| 22 | Characterization of almond $\beta$ -mannosidase and its application for structure analysis of sugar chain. <i>Journal of Bioscience and Bioengineering</i> , 2003, 96, 187-192.                                    | 2.2 | 8         |
| 23 | Cloning and characterization of cytidine monophosphate-3-deoxy-d-manno-octulosonate synthetase from <i>Arabidopsis thaliana</i> . <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 527-529.            | 2.2 | 8         |
| 24 | Fucosyltransferases produce N-glycans containing core I-galactose. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 658-663.  | 2.1 | 7         |
| 25 | Cell surface N-glycan alteration in HepAD38 cell lines expressing Hepatitis B virus. <i>Virus Research</i> , 2017, 238, 101-109.   | 2.2 | 7         |
| 26 | Enhancement of sialylation in rIgG in glyco-engineered Chinese hamster ovary cells. <i>Cytotechnology</i> , 2020, 72, 343-355.   | 1.6 | 7         |
| 27 | Recombinant production and characterization of human anti-influenza virus monoclonal antibodies identified from hybridomas fused with human lymphocytes. <i>Biologicals</i> , 2016, 44, 394-402.                   | 1.4 | 6         |
| 28 | <i>Arabidopsis thaliana</i> $\beta$ -1,2- $\alpha$ -fucosyltransferase catalyzes the transfer of galactose to xyloglucan oligosaccharides. <i>FEBS Letters</i> , 2019, 593, 187-194.                               | 2.8 | 6         |
| 29 | Isolation of a thermotolerant <i>Rhodospiridium toruloides</i> DMKU3-TK16 mutant and its fatty acid profile at high temperature. <i>FEMS Microbiology Letters</i> , 2018, 365, .                                   | 1.8 | 6         |
| 30 | Fully Human Monoclonal Antibodies Effectively Neutralizing Botulinum Neurotoxin Serotype B. <i>Toxins</i> , 2020, 12, 302.   | 3.4 | 6         |
| 31 | Antibody germline characterization of cross-neutralizing human IgGs against 4 serotypes of dengue virus. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 475-480.                          | 2.1 | 5         |
| 32 | <i>Bombyx mori</i> $\beta$ 1,4-N-acetylgalactosaminyltransferase possesses relaxed donor substrate specificity in N-glycan synthesis. <i>Scientific Reports</i> , 2021, 11, 5505.                                  | 3.3 | 5         |
| 33 | Transient Production of Human $\beta$ -Glucocerebrosidase With Mannosidic-Type N-Glycan Structure in Glycoengineered <i>Nicotiana benthamiana</i> Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 683762.    | 3.6 | 4         |
| 34 | Biochemical characterization of <i>Arabidopsis</i> clade F polygalacturonase shows a substrate preference toward oligogalacturonic acids. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 1-7.        | 2.2 | 4         |
| 35 | Structure and Biological Functions of Plant Glycans and Polysaccharides. , 2021, , 93-109.   |     | 3         |
| 36 | Direct evidence of cytosolic PNGase activity in <i>Arabidopsis thaliana</i> : <i>in vitro</i> assay system for plant cPNGase activity. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 1460-1463.    | 1.3 | 3         |

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|----|---|-----|-----------|
| 37 | Production of Human Acid-Alpha Glucosidase With a Paucimannose Structure by Glycoengineered Arabidopsis Cell Culture. <i>Frontiers in Plant Science</i> , 2021, 12, 703020.   | 3.6 | 3         |
| 38 | Characterization of Bombyx mori N-acetylglucosaminyltransferase II splicing variants. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 404-410.  | 2.1 | 2         |
| 39 | Improved assay system for acidic peptide: N-glycanase (aPNGase) activity in plant extracts. <i>Analytical Biochemistry</i> , 2021, 634, 114367.   | 2.4 | 2         |
| 40 | St6gal1 knockdown alters HBV life cycle in HepAD38 cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 1841-1847.  | 2.1 | 1         |
| 41 | Establishment of serum-free adapted Chinese hamster ovary cells with double knockout of GDP-mannose-4,6-dehydratase and GDP-fucose transporter. <i>Cytotechnology</i> , 2022, 74, 163-179.  | 1.6 | 1         |
| 42 | Transglycosylation toward naringenin-7-O-glucoside using an N180H mutant of Coprinopsis cinerea endo- $\beta$ -N-acetylglucosaminidase. <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 155-159.                      | 2.1 | 0         |
| 43 | Production of recombinant $\beta$ -glucocerebrosidase in wild-type and glycoengineered transgenic Nicotiana benthamiana root cultures with different N-glycan profiles. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 481-488. | 2.2 | 0         |
| 44 | Analysis of N-glycan profile of Arabidopsis cell culture. <i>Plant Biotechnology</i> , 2021, 38, 463-467.   | 1.0 | 0         |