

# Kiichiro Totani

## List of Publications by Year in descending order

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36  
papers

1,014  
citations

471509

17  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

570  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Recognition Motif of the Glycoprotein-Folding Sensor Enzyme UDP-Glc:Glycoprotein Glucosyltransferase. <i>Biochemistry</i> , 2009, 48, 2933-2940.	2.5	109
2	Synthetic Substrates for an Endoplasmic Reticulum Protein-Folding Sensor, UDP-Glucose: Glycoprotein Glucosyltransferase. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7950-7954.	13.8	91
3	Substrate Specificity Analysis of Endoplasmic Reticulum Glucosidase II Using Synthetic High Mannose-type Glycans. <i>Journal of Biological Chemistry</i> , 2006, 281, 31502-31508.	3.4	88
4	Effects of Macromolecular Crowding on Glycoprotein Processing Enzymes. <i>Journal of the American Chemical Society</i> , 2008, 130, 2101-2107.	13.7	85
5	Comprehensive synthesis of ER related high-mannose-type sugar chains by convergent strategy. <i>Tetrahedron</i> , 2006, 62, 8262-8277.	1.9	76
6	Structural approaches to the study of oligosaccharides in glycoprotein quality control. <i>Current Opinion in Structural Biology</i> , 2005, 15, 481-489.	5.7	61
7	The sugar-binding ability of ERGIC-53 is enhanced by its interaction with MCFD2. <i>Blood</i> , 2008, 111, 1972-1979.	1.4	54
8	Chemical approaches toward understanding glycan-mediated protein quality control. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 582-591.	6.1	52
9	Sugar-binding activity of the MRH domain in the ER $\alpha$ -glucosidase II $\alpha$ subunit is important for efficient glucose trimming. <i>Glycobiology</i> , 2009, 19, 1127-1135.	2.5	50
10	Genetic analysis of glucosidase II $\beta$ -subunit in trimming of high-mannose-type glycans. <i>Glycobiology</i> , 2009, 19, 834-840.	2.5	43
11	High-mannose-type glycan modifications of dihydrofolate reductase using glycan- $\alpha$ -methotrexate conjugates. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 5220-5229.	3.0	35
12	First chemical synthesis of triglycosylated tetradecasaccharide (Glc3Man9GlcNAc2), a common precursor of asparagine-linked oligosaccharides. <i>Tetrahedron Letters</i> , 2005, 46, 4197-4200.	1.4	32
13	Substrate Specificity Analysis of Endoplasmic Reticulum Glucosidase II Using Synthetic High Mannose-type Glycans. <i>Journal of Biological Chemistry</i> , 2006, 281, 31502-31508.	3.4	30
14	Detection of Weak Sugar Binding Activity of VIP36 using VIP36-streptavidin Complex and Membrane-based Sugar Chains. <i>Journal of Biochemistry</i> , 2006, 141, 221-229.	1.7	28
15	Tight binding ligand approach to oligosaccharide-grafted protein. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2285-2289.	2.2	24
16	Reconstructed glycan profile for evaluation of operating status of the endoplasmic reticulum glycoprotein quality control. <i>Glycobiology</i> , 2013, 23, 121-131.	2.5	17
17	Selective Manipulation of Discrete Mannosidase Activities in the Endoplasmic Reticulum by Using Reciprocally Selective Inhibitors. <i>ChemBioChem</i> , 2017, 18, 1027-1035.	2.6	17
18	Endo- $\alpha$ -Mannosidase-Catalyzed Transglycosylation. <i>ChemBioChem</i> , 2017, 18, 1376-1378.	2.6	14

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19	Structural insights into N-linked glycan-mediated protein folding from chemical and biological perspectives. <i>Current Opinion in Structural Biology</i> , 2021, 68, 41-47.	5.7	14
20	Calreticulin discriminates the proximal region at the N-glycosylation site of Glc1Man9GlcNAc2 ligand. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 350-355.	2.1	12
21	Diverse Effects of Macromolecular Crowding on the Sequential Glycan Processing Pathway Involved in Glycoprotein Quality Control. <i>ChemBioChem</i> , 2013, 14, 753-758.	2.6	11
22	Physicochemical characterization of 6-O-acyl trehalose fatty acid monoesters in desiccated system. <i>Chemistry and Physics of Lipids</i> , 2018, 216, 80-90.	3.2	9
23	Glycopeptide probes for understanding peptide specificity of the folding sensor enzyme UGGT. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5563-5567.	2.2	8
24	Metabolic syndrome perturbs deglycosylation and reglycosylation in the glycoprotein folding cycle. <i>FEBS Letters</i> , 2020, 594, 1759-1769.	2.8	8
25	Silyl-assisted 1,2-cis- $\beta$ -glucosylation for the synthesis of a triglucoside moiety in high-mannose-type oligosaccharides. <i>RSC Advances</i> , 2015, 5, 75918-75922.	3.6	6
26	Glycan structure-based perspectives on the entry and release of glycoproteins in the calnexin/calreticulin cycle. <i>Carbohydrate Research</i> , 2021, 502, 108273.	2.3	6
27	Stratified analysis of lectin-like chaperones in the folding disease-related metabolic syndrome rat model. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 247-253.	2.1	4
28	Oligomannose-Type Glycan Processing in the Endoplasmic Reticulum and Its Importance in Misfolding Diseases. <i>Biology</i> , 2022, 11, 199.	2.8	4
29	Influence of aglycone structures on N-glycan processing reactions in the endoplasmic reticulum. <i>Carbohydrate Research</i> , 2017, 439, 16-22.	2.3	3
30	Influence of Hyaluronan Environments on the Stereoselectivity of an Aldol Reaction. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 265-268.	1.4	2
31	Analytical method for determining relative chaperone activity using an ovalbumin-conjugated column. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 333-338.	2.1	2
32	Perturbation of the Relative Contribution of Molecular Chaperones in the Endoplasmic Reticulum. <i>ACS Omega</i> , 2020, 5, 7399-7405.	3.5	2
33	Synthetic trisaccharides reveal discrimination of <i>endo</i> -glycosidic linkages by <i>exo</i> -acting $\beta$ -1,2-mannosidases in the endoplasmic reticulum. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4137-4145.	2.8	2
34	Magnetic beads-assisted mild enrichment procedure for weak-binding lectins. <i>Analytical Biochemistry</i> , 2011, 411, 50-57.	2.4	1
35	Glycoprotein Quality Control Contributed by Secondary Factors. <i>Trends in Glycoscience and Glycotechnology</i> , 2019, 31, SE59-SE60.	0.1	1
36	Mechanistic Study of Silyl-Assist Effect on 1,2-cis- $\beta$ -Glucosylation. <i>ChemistrySelect</i> , 2022, 7, .	1.5	1