

Christelle Breton

List of Publications by Year in descending order

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35
papers

2,149
citations

331670

21
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

2808
citing authors

#	ARTICLE	IF	CITATIONS
1	Structures and mechanisms of glycosyltransferases. <i>Glycobiology</i> , 2006, 16, 29R-37R.	2.5	572
2	Recent structures, evolution and mechanisms of glycosyltransferases. <i>Current Opinion in Structural Biology</i> , 2012, 22, 540-549.	5.7	185
3	Structure/function studies of glycosyltransferases. <i>Current Opinion in Structural Biology</i> , 1999, 9, 563-571.	5.7	177
4	Sequence-Function Relationships of Prokaryotic and Eukaryotic Galactosyltransferases. <i>Journal of Biochemistry</i> , 1998, 123, 1000-1009.	1.7	140
5	Current trends in the structure-activity relationships of sialyltransferases. <i>Glycobiology</i> , 2011, 21, 716-726.	2.5	134
6	Structure-Function Analysis of the Human Sialyltransferase ST3Gal I. <i>Journal of Biological Chemistry</i> , 2004, 279, 13461-13468.	3.4	102
7	Activation of the Chloroplast Monogalactosyldiacylglycerol Synthase MGD1 by Phosphatidic Acid and Phosphatidylglycerol. <i>Journal of Biological Chemistry</i> , 2010, 285, 6003-6011.	3.4	102
8	Glyco3D: A Portal for Structural Glycosciences. <i>Methods in Molecular Biology</i> , 2015, 1273, 241-258.	0.9	77
9	A new superfamily of protein-O-fucosyltransferases, β 2-fucosyltransferases, and β 6-fucosyltransferases: phylogeny and identification of conserved peptide motifs. <i>Glycobiology</i> , 2003, 13, 1C-5.	2.5	70
10	Determination of Catalytic Key Amino Acids and UDP Sugar Donor Specificity of the Cyanohydrin Glycosyltransferase UGT85B1 from <i>Sorghum bicolor</i> . <i>Molecular Modeling Substantiated by Site-Specific Mutagenesis and Biochemical Analyses</i> . <i>Plant Physiology</i> , 2005, 139, 664-673.	4.8	59
11	Exploring the Acceptor Substrate Recognition of the Human β 2-Galactoside β 2,6-Sialyltransferase. <i>Journal of Biological Chemistry</i> , 2001, 276, 21608-21617.	3.4	51
12	Do Galactolipid Synthases Play a Key Role in the Biogenesis of Chloroplast Membranes of Higher Plants?. <i>Frontiers in Plant Science</i> , 2018, 9, 126.	3.6	40
13	Molecular Modeling and Site-directed Mutagenesis of Plant Chloroplast Monogalactosyldiacylglycerol Synthase Reveal Critical Residues for Activity. <i>Journal of Biological Chemistry</i> , 2005, 280, 34691-34701.	3.4	38
14	Structure of <i>Arabidopsis thaliana</i> FUT1 Reveals a Variant of the GT-B Class Fold and Provides Insight into Xyloglucan Fucosylation. <i>Plant Cell</i> , 2016, 28, 2352-2364.	6.6	33
15	Exploring genomes for glycosyltransferases. <i>Molecular BioSystems</i> , 2010, 6, 1773.	2.9	32
16	Combination of Several Bioinformatics Approaches for the Identification of New Putative Glycosyltransferases in <i>Arabidopsis</i> . <i>Journal of Proteome Research</i> , 2009, 8, 743-753.	3.7	30
17	Molecular modeling of glycosyltransferases involved in the biosynthesis of blood group A, blood group B, Forssman, and iGb3 antigens and their interaction with substrates. <i>Glycobiology</i> , 2003, 13, 377-386.	2.5	28
18	The influence of lipids on MGD1 membrane binding highlights novel mechanisms for galactolipid biosynthesis regulation in chloroplasts. <i>FASEB Journal</i> , 2014, 28, 3114-3123.	0.5	26

#	ARTICLE	IF	CITATIONS
19	Identification of Essential Amino Acids in the Azorhizobium caulinodans Fucosyltransferase NodZ. <i>Journal of Bacteriology</i> , 2001, 183, 7067-7075.	2.2	25
20	Comparative aspects of glycosyltransferases. <i>Biochemical Society Symposia</i> , 2002, 69, 23-32.	2.7	24
21	Combining fold recognition and exploratory data analysis for searching for glycosyltransferases in the genome of <i>Mycobacterium tuberculosis</i> . <i>Biochimie</i> , 2003, 85, 691-700.	2.6	22
22	Structural insights and membrane binding properties of MGD1, the major galactolipid synthase in plants. <i>Plant Journal</i> , 2016, 85, 622-633.	5.7	22
23	Identification of a Plasmid-Borne Locus in <i>Rhizobium etli</i> KIM5s Involved in Lipopolysaccharide O-Chain Biosynthesis and Nodulation of <i>Phaseolus vulgaris</i> . <i>Journal of Bacteriology</i> , 1999, 181, 5606-5614.	2.2	22
24	Distantly related plant and nematode core β 1,3-fucosyltransferases display similar trends in structure-function relationships. <i>Glycobiology</i> , 2011, 21, 1401-1415.	2.5	21
25	A novel human glycosyltransferase: primary structure and characterization of the gene and transcripts. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 166-174.	2.1	19
26	Synthesis of globopentaose using a novel β 1,3-galactosyltransferase activity of the <i>Haemophilus influenzae</i> β 1,3-N-acetylgalactosaminyltransferase LgtD. <i>FEBS Letters</i> , 2007, 581, 2652-2656.	2.8	19
27	Identification of Putative Rhamnogalacturonan-II Specific Glycosyltransferases in <i>Arabidopsis</i> Using a Combination of Bioinformatics Approaches. <i>PLoS ONE</i> , 2012, 7, e51129.	2.5	16
28	Recognition of cell surface acceptors by two human β 2,6-sialyltransferases produced in CHO cells. <i>Biochimie</i> , 2003, 85, 311-321.	2.6	12
29	Revisiting the expression and purification of MGD1, the major galactolipid synthase in <i>Arabidopsis</i> to establish a novel standard for biochemical and structural studies. <i>Biochimie</i> , 2013, 95, 700-708.	2.6	12
30	Expression, purification and biochemical characterization of AtFUT1, a xyloglucan-specific fucosyltransferase from <i>Arabidopsis thaliana</i> . <i>Biochimie</i> , 2016, 128-129, 183-192.	2.6	11
31	Unraveling the complex enzymatic machinery making a key galactolipid in chloroplast membrane: a multiscale computer simulation. <i>Scientific Reports</i> , 2020, 10, 13514.	3.3	10
32	Mechanism of activation of plant monogalactosyldiacylglycerol synthase 1 (MGD1) by phosphatidylglycerol. <i>Glycobiology</i> , 2020, 30, 396-406.	2.5	10
33	Structures of a human blood group glycosyltransferase in complex with a photo-activatable UDP-Gal derivative reveal two different binding conformations. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1015-1021.	0.8	3
34	Glyco3D: A Suite of Interlinked Databases of 3D Structures of Complex Carbohydrates, Lectins, Antibodies, and Glycosyltransferases. , 2017, , 133-161.		3
35	Molecular Basis for the Biosynthesis of Oligo- and Polysaccharides. , 2008, , 2265-2323.		2