Brock Schuman

List of Publications by Year
in descending order

9 papers	109 citations	1684188 5 h-index	1588992 8 g-index
10 all docs	10 docs citations	10 times ranked	155 citing authors

#	Article	IF	Citations
1	Conserved residues Arg188 and Asp302 are critical for active site organization and catalysis in human ABO(H) blood group A and B glycosyltransferasesâ€. Glycobiology, 2018, 28, 624-636.	2.5	9
2	Glycosyltransfer in mutants of putative catalytic residue Glu303 of the human ABO(H) A and B blood group glycosyltransferases GTA and GTB proceeds through a labile active site. Glycobiology, 2017, 27, 370-380.	2.5	5
3	High-resolution crystal structures and STD NMR mapping of human ABO(H) blood group glycosyltransferases in complex with trisaccharide reaction products suggest a molecular basis for product release. Glycobiology, 2017, 27, 966-977.	2.5	3
4	pH-induced conformational changes in human ABO(H) blood group glycosyltransferases confirm the importance of electrostatic interactions in the formation of the semi-closed state. Glycobiology, 2014, 24, 237-246.	2.5	5
5	Geometric Attributes of Retaining Glycosyltransferase Enzymes Favor an Orthogonal Mechanism. PLoS ONE, 2013, 8, e71077.	2.5	27
6	Sequence-dependent effects of cryoprotectants on the active sites of the human ABO(H) blood group A and B glycosyltransferases. Acta Crystallographica Section D: Biological Crystallography, 2012, 68, 268-276.	2.5	10
7	Cysteine-to-Serine Mutants Dramatically Reorder the Active Site of Human ABO(H) Blood Group B Glycosyltransferase without Affecting Activity: Structural Insights into Cooperative Substrate Binding. Journal of Molecular Biology, 2010, 402, 399-411.	4.2	11
8	The effect of heavy atoms on the conformation of the active-site polypeptide loop in human ABO(H) blood-group glycosyltransferase B. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 860-865.	2.5	12
9	Glycosyltransferase Structure and Function. , 2006, , 217-257.		27