Barbara A Bensing

List of Publications by Year
in descending order

33	1,724	331670 21	414414 32
papers	citations	h-index	g-index

33	33	33	1369
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	O-linked Î±2,3 sialylation defines stem cell populations in breast cancer. Science Advances, 2022, 8, eabj9513.	10.3	15
2	Origins of glycan selectivity in streptococcal Siglec-like adhesins suggest mechanisms of receptor adaptation. Nature Communications, 2022, 13, 2753.	12.8	4
3	Display of the human mucinome with defined O-glycans by gene engineered cells. Nature Communications, 2021, 12, 4070.	12.8	67
4	Proteoglycan 4 (lubricin) is a highly sialylated glycoprotein associated with cardiac valve damage in animal models of infective endocarditis. Glycobiology, 2021, , .	2.5	3
5	O-acetylation controls the glycosylation of bacterial serine-rich repeat glycoproteins. Journal of Biological Chemistry, 2021, 296, 100249.	3.4	4
6	Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors. RSC Chemical Biology, 2021, 2, 1618-1630.	4.1	6
7	Tandem sialoglycan-binding modules in a Streptococcus sanguinis serine-rich repeat adhesin create target dependent avidity effects. Journal of Biological Chemistry, 2020, 295, 14737-14749.	3.4	2
8	Structure based virtual screening identifies small molecule effectors for the sialoglycan binding protein Hsa. Biochemical Journal, 2020, 477, 3695-3707.	3.7	7
9	An Atlas of Human Glycosylation Pathways Enables Display of the Human Glycome by Gene Engineered Cells. Molecular Cell, 2019, 75, 394-407.e5.	9.7	181
10	Recognition of specific sialoglycan structures by oral streptococci impacts the severity of endocardial infection. PLoS Pathogens, 2019, 15, e1007896.	4.7	27
11	Membrane trafficking of the bacterial adhesin GspB and the accessory Sec transport machinery. Journal of Biological Chemistry, 2019, 294, 1502-1515.	3.4	8
12	Streptococcal Siglec-like adhesins recognize different subsets of human plasma glycoproteins: implications for infective endocarditis. Glycobiology, 2018, 28, 601-611.	2.5	37
13	O-acetylation of the serine-rich repeat glycoprotein GspB is coordinated with accessory Sec transport. PLoS Pathogens, 2017, 13, e1006558.	4.7	19
14	Structural Basis for Sialoglycan Binding by the Streptococcus sanguinis SrpA Adhesin. Journal of Biological Chemistry, 2016, 291, 7230-7240.	3.4	39
15	Structures of the Streptococcus sanguinis SrpA Binding Region with Human Sialoglycans Suggest Features of the Physiological Ligand. Biochemistry, 2016, 55, 5927-5937.	2.5	27
16	Novel aspects of sialoglycan recognition by the Siglec-like domains of streptococcal SRR glycoproteins. Glycobiology, 2016, 26, cww042.	2.5	55
17	Mechanism of a cytosolic O -glycosyltransferase essential for the synthesis of a bacterial adhesion protein. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1190-9.	7.1	36
18	Oral Streptococci Utilize a Siglec-Like Domain of Serine-Rich Repeat Adhesins to Preferentially Target Platelet Sialoglycans in Human Blood. PLoS Pathogens, 2014, 10, e1004540.	4.7	75

#	Article	IF	Citations
19	Selective transport by SecA2: An expanding family of customized motor proteins. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1674-1686.	4.1	73
20	The Accessory Sec Protein Asp2 Modulates GlcNAc Deposition onto the Serine-Rich Repeat Glycoprotein GspB. Journal of Bacteriology, 2012, 194, 5564-5575.	2.2	26
21	A Specific Interaction between SecA2 and a Region of the Preprotein Adjacent to the Signal Peptide Occurs during Transport via the Accessory Sec System. Journal of Biological Chemistry, 2012, 287, 24438-24447.	3.4	16
22	A Structural Model for Binding of the Serine-Rich Repeat Adhesin GspB to Host Carbohydrate Receptors. PLoS Pathogens, 2011, 7, e1002112.	4.7	75
23	Transport of Preproteins by the Accessory Sec System Requires a Specific Domain Adjacent to the Signal Peptide. Journal of Bacteriology, 2010, 192, 4223-4232.	2.2	25
24	Characterization of Streptococcus gordonii SecA2 as a Paralogue of SecA. Journal of Bacteriology, 2009, 191, 3482-3491.	2.2	26
25	Role of the serine-rich surface glycoprotein GspB of Streptococcus gordonii in the pathogenesis of infective endocarditis. Microbial Pathogenesis, 2008, 45, 297-301.	2.9	96
26	Glycine Residues in the Hydrophobic Core of the GspB Signal Sequence Route Export toward the Accessory Sec Pathway. Journal of Bacteriology, 2007, 189, 3846-3854.	2.2	39
27	Binding of the Streptococcal Surface Glycoproteins GspB and Hsa to Human Salivary Proteins. Infection and Immunity, 2006, 74, 1933-1940.	2.2	89
28	Binding of theStreptococcus gordoniisurface glycoproteins GspB and Hsa to specific carbohydrate structures on platelet membrane glycoprotein Ibî±. Molecular Microbiology, 2005, 58, 380-392.	2.5	121
29	Determinants of the streptococcal surface glycoprotein GspB that facilitate export by the accessory Sec system. Molecular Microbiology, 2005, 58, 1468-1481.	2.5	68
30	The Streptococcus gordonii Surface Proteins GspB and Hsa Mediate Binding to Sialylated Carbohydrate Epitopes on the Platelet Membrane Glycoprotein Ibî±. Infection and Immunity, 2004, 72, 6528-6537.	2.2	153
31	Genes in the accessory sec locus of Streptococcus gordonii have three functionally distinct effects on the expression of the platelet-binding protein GspB. Molecular Microbiology, 2004, 52, 189-203.	2.5	91
32	An accessory sec locus of Streptococcus gordonii is required for export of the surface protein GspB and for normal levels of binding to human platelets. Molecular Microbiology, 2002, 44, 1081-1094.	2.5	213
33	The Two Distinct Types of SecA2-Dependent Export Systems. , 0, , 29-41.		1