

Barbara A Bensing

List of Publications by Year in descending order

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33
papers

1,724
citations

331670

21
h-index

414414

32
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33
all docs

33
docs citations

33
times ranked

1369
citing authors

#	ARTICLE	IF	CITATIONS
1	An accessory sec locus of <i>Streptococcus gordonii</i> is required for export of the surface protein GspB and for normal levels of binding to human platelets. <i>Molecular Microbiology</i> , 2002, 44, 1081-1094.	2.5	213
2	An Atlas of Human Glycosylation Pathways Enables Display of the Human Glycome by Gene Engineered Cells. <i>Molecular Cell</i> , 2019, 75, 394-407.e5.	9.7	181
3	The <i>Streptococcus gordonii</i> Surface Proteins GspB and Hsa Mediate Binding to Sialylated Carbohydrate Epitopes on the Platelet Membrane Glycoprotein Ib α . <i>Infection and Immunity</i> , 2004, 72, 6528-6537.	2.2	153
4	Binding of the <i>Streptococcus gordonii</i> surface glycoproteins GspB and Hsa to specific carbohydrate structures on platelet membrane glycoprotein Ib α . <i>Molecular Microbiology</i> , 2005, 58, 380-392.	2.5	121
5	Role of the serine-rich surface glycoprotein GspB of <i>Streptococcus gordonii</i> in the pathogenesis of infective endocarditis. <i>Microbial Pathogenesis</i> , 2008, 45, 297-301.	2.9	96
6	Genes in the accessory sec locus of <i>Streptococcus gordonii</i> have three functionally distinct effects on the expression of the platelet-binding protein GspB. <i>Molecular Microbiology</i> , 2004, 52, 189-203.	2.5	91
7	Binding of the Streptococcal Surface Glycoproteins GspB and Hsa to Human Salivary Proteins. <i>Infection and Immunity</i> , 2006, 74, 1933-1940.	2.2	89
8	A Structural Model for Binding of the Serine-Rich Repeat Adhesin GspB to Host Carbohydrate Receptors. <i>PLoS Pathogens</i> , 2011, 7, e1002112.	4.7	75
9	Oral Streptococci Utilize a Siglec-Like Domain of Serine-Rich Repeat Adhesins to Preferentially Target Platelet Sialoglycans in Human Blood. <i>PLoS Pathogens</i> , 2014, 10, e1004540.	4.7	75
10	Selective transport by SecA2: An expanding family of customized motor proteins. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1674-1686.	4.1	73
11	Determinants of the streptococcal surface glycoprotein GspB that facilitate export by the accessory Sec system. <i>Molecular Microbiology</i> , 2005, 58, 1468-1481.	2.5	68
12	Display of the human mucinome with defined O-glycans by gene engineered cells. <i>Nature Communications</i> , 2021, 12, 4070.	12.8	67
13	Novel aspects of sialoglycan recognition by the Siglec-like domains of streptococcal SRR glycoproteins. <i>Glycobiology</i> , 2016, 26, cww042.	2.5	55
14	Glycine Residues in the Hydrophobic Core of the GspB Signal Sequence Route Export toward the Accessory Sec Pathway. <i>Journal of Bacteriology</i> , 2007, 189, 3846-3854.	2.2	39
15	Structural Basis for Sialoglycan Binding by the <i>Streptococcus sanguinis</i> SrpA Adhesin. <i>Journal of Biological Chemistry</i> , 2016, 291, 7230-7240.	3.4	39
16	Streptococcal Siglec-like adhesins recognize different subsets of human plasma glycoproteins: implications for infective endocarditis. <i>Glycobiology</i> , 2018, 28, 601-611.	2.5	37
17	Mechanism of a cytosolic <i>O</i> -glycosyltransferase essential for the synthesis of a bacterial adhesion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1190-9.	7.1	36
18	Structures of the <i>Streptococcus sanguinis</i> SrpA Binding Region with Human Sialoglycans Suggest Features of the Physiological Ligand. <i>Biochemistry</i> , 2016, 55, 5927-5937.	2.5	27

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19	Recognition of specific sialoglycan structures by oral streptococci impacts the severity of endocardial infection. <i>PLoS Pathogens</i> , 2019, 15, e1007896.	4.7	27
20	Characterization of <i>Streptococcus gordonii</i> SecA2 as a Parologue of SecA. <i>Journal of Bacteriology</i> , 2009, 191, 3482-3491.	2.2	26
21	The Accessory Sec Protein Asp2 Modulates GlcNAc Deposition onto the Serine-Rich Repeat Glycoprotein GspB. <i>Journal of Bacteriology</i> , 2012, 194, 5564-5575.	2.2	26
22	Transport of Preproteins by the Accessory Sec System Requires a Specific Domain Adjacent to the Signal Peptide. <i>Journal of Bacteriology</i> , 2010, 192, 4223-4232.	2.2	25
23	O-acetylation of the serine-rich repeat glycoprotein GspB is coordinated with accessory Sec transport. <i>PLoS Pathogens</i> , 2017, 13, e1006558.	4.7	19
24	A Specific Interaction between SecA2 and a Region of the Preprotein Adjacent to the Signal Peptide Occurs during Transport via the Accessory Sec System. <i>Journal of Biological Chemistry</i> , 2012, 287, 24438-24447.	3.4	16
25	O-linked $\hat{I}\pm 2,3$ sialylation defines stem cell populations in breast cancer. <i>Science Advances</i> , 2022, 8, eabj9513.	10.3	15
26	Membrane trafficking of the bacterial adhesin GspB and the accessory Sec transport machinery. <i>Journal of Biological Chemistry</i> , 2019, 294, 1502-1515.	3.4	8
27	Structure based virtual screening identifies small molecule effectors for the sialoglycan binding protein Hsa. <i>Biochemical Journal</i> , 2020, 477, 3695-3707.	3.7	7
28	Molecular recognition of sialoglycans by streptococcal Siglec-like adhesins: toward the shape of specific inhibitors. <i>RSC Chemical Biology</i> , 2021, 2, 1618-1630.	4.1	6
29	O-acetylation controls the glycosylation of bacterial serine-rich repeat glycoproteins. <i>Journal of Biological Chemistry</i> , 2021, 296, 100249.	3.4	4
30	Origins of glycan selectivity in streptococcal Siglec-like adhesins suggest mechanisms of receptor adaptation. <i>Nature Communications</i> , 2022, 13, 2753.	12.8	4
31	Proteoglycan 4 (lubricin) is a highly sialylated glycoprotein associated with cardiac valve damage in animal models of infective endocarditis. <i>Glycobiology</i> , 2021, , .	2.5	3
32	Tandem sialoglycan-binding modules in a <i>Streptococcus sanguinis</i> serine-rich repeat adhesin create target dependent avidity effects. <i>Journal of Biological Chemistry</i> , 2020, 295, 14737-14749.	3.4	2
33	The Two Distinct Types of SecA2-Dependent Export Systems. , 0, , 29-41.		1