

Andrei V Perepelov

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99
papers

1,020
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14
h-index

27
g-index

100
ext. papers

1,266
ext. citations

3.2
avg, IF

3.61
L-index

#	Paper	IF	Citations
99	Structure and genetics of Shigella O antigens. <i>FEMS Microbiology Reviews</i> , 2008 , 32, 627-53	15.1	230
98	Shigella flexneri O-antigens revisited: final elucidation of the O-acetylation profiles and a survey of the O-antigen structure diversity. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 66, 201-10		60
97	A group of Escherichia coli and Salmonella enterica O antigens sharing a common backbone structure. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 2159-2167	2.9	50
96	Structure and genetics of Escherichia coli O antigens. <i>FEMS Microbiology Reviews</i> , 2020 , 44, 655-683	15.1	49
95	A similarity in the O-acetylation pattern of the O-antigens of Shigella flexneri types 1a, 1b, and 2a. <i>Carbohydrate Research</i> , 2009 , 344, 687-92	2.9	35
94	Structural and genetic evidence that the Escherichia coli O148 O antigen is the precursor of the Shigella dysenteriae type 1 O antigen and identification of a glucosyltransferase gene. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 139-147	2.9	34
93	Structures of the O-antigens of Escherichia coli O13, O129, and O135 related to the O-antigens of Shigella flexneri. <i>Carbohydrate Research</i> , 2010 , 345, 1594-9	2.9	28
92	Structural studies of the O-specific polysaccharide of Vibrio cholerae O8 using solvolysis with triflic acid. <i>Carbohydrate Research</i> , 2001 , 330, 83-92	2.9	19
91	Structural and genetic characterization of Escherichia coli O99 antigen. <i>FEMS Immunology and Medical Microbiology</i> , 2009 , 57, 80-7		16
90	Structure of a teichoic acid-like O-polysaccharide of Escherichia coli O29. <i>Carbohydrate Research</i> , 2006 , 341, 2176-80	2.9	16
89	Structure and genetics of the O-antigen of Enterobacter cloacae C6285 containing di-N-acetyllegionaminic acid. <i>Carbohydrate Research</i> , 2014 , 392, 21-4	2.9	14
88	A new ethanolamine phosphate-containing variant of the O-antigen of Shigella flexneri type 4a. <i>Carbohydrate Research</i> , 2009 , 344, 1588-91	2.9	14
87	First application of triflic acid for selective cleavage of glycosidic linkages in structural studies of a bacterial polysaccharide from Pseudoalteromonas sp. KMM 634. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 363-366		14
86	Structural and serological studies on the O-antigen of Proteus mirabilis O14, a new polysaccharide containing 2-[(R)-1-carboxyethylamino]ethyl phosphate. <i>FEBS Journal</i> , 1999 , 261, 347-53		14
85	Structural and genetic characterization of the closely related O-antigens of Escherichia coli O85 and Salmonella enterica O17. <i>Innate Immunity</i> , 2011 , 17, 164-73	2.7	13
84	A pseudoaminic acid-containing O-specific polysaccharide from a marine bacterium Cellulophaga fucicola. <i>Carbohydrate Research</i> , 2007 , 342, 1378-81	2.9	13
83	Structure elucidation and gene cluster annotation of the O-antigen of Escherichia coli O39; application of anhydrous trifluoroacetic acid for selective cleavage of glycosidic linkages. <i>Carbohydrate Research</i> , 2014 , 388, 30-6	2.9	12

82	Structure of the O-antigen of Salmonella O66 and the genetic basis for similarity and differences between the closely related O-antigens of Escherichia coli O166 and Salmonella O66. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 1642-1649	2.9	12
81	Structure of the O-polysaccharide of Escherichia coli O112ab containing L-iduronic acid. <i>Carbohydrate Research</i> , 2008 , 343, 571-5	2.9	11
80	The O-polysaccharide of Escherichia coli O112ac has the same structure as that of Shigella dysenteriae type 2 but is devoid of O-acetylation: a revision of the S. dysenteriae type 2 O-polysaccharide structure. <i>Carbohydrate Research</i> , 2008 , 343, 977-81	2.9	11
79	Solvolytic cleavage with trifluoroacetic acid: an efficient method for selective cleavage of polysaccharides. <i>Mendeleev Communications</i> , 2016 , 26, 279-281	1.9	11
78	Relatedness of the O-polysaccharide structures of Escherichia coli O123 and Salmonella enterica O58, both containing 4,6-dideoxy-4-{N-[(S)-3-hydroxybutanoyl]-D-alanyl}amino-D-glucose; revision of the E. coli O123 O-polysaccharide structure. <i>Carbohydrate Research</i> , 2010 , 345, 825-9	2.9	10
77	Structure of the O-polysaccharide of Escherichia coli O150 containing 2-acetamido-4-O-[(S)-1-carboxyethyl]-2-deoxy-d-glucose. <i>Carbohydrate Research</i> , 2007 , 342, 648-52	2.9	10
76	Structure of a glycerol teichoic acid-like O-specific polysaccharide of Proteus vulgaris O12. <i>FEBS Journal</i> , 2000 , 267, 788-93		10
75	Structure of the O-polysaccharide of Escherichia coli O132. <i>Carbohydrate Research</i> , 2016 , 427, 44-7	2.9	10
74	Structure and gene cluster of the O-antigen of Escherichia coli O43. <i>Carbohydrate Research</i> , 2015 , 416, 32-6	2.9	9
73	Structures of the O-polysaccharides of Salmonella enterica O59 and Escherichia coli O15. <i>Carbohydrate Research</i> , 2011 , 346, 381-3	2.9	9
72	Structure and gene cluster of the O-antigen of Salmonella enterica O60 containing 3-formamido-3,6-dideoxy-D-galactose. <i>Carbohydrate Research</i> , 2010 , 345, 1632-4	2.9	9
71	The O-antigen of Salmonella enterica O13 and its relation to the O-antigen of Escherichia coli O127. <i>Carbohydrate Research</i> , 2010 , 345, 1808-11	2.9	9
70	Close relation of the O-polysaccharide structure of Escherichia coli O168 and revised structure of the O-polysaccharide of Shigella dysenteriae type 4. <i>Carbohydrate Research</i> , 2007 , 342, 2676-81	2.9	9
69	Structure and gene cluster of the O-antigen of Escherichia coli O68. <i>Carbohydrate Research</i> , 2014 , 397, 27-30	2.9	8
68	Structure of the O-polysaccharide of Escherichia coli O61, Another E. coli O-antigen That Contains 5,7-Diacetamido-3,5,7,9-tetradideoxy-l-glycero-D-galacto-non-2-ulosonic (Di-N-acetyl-8-epilegionaminic) Acid. <i>Journal of Carbohydrate Chemistry</i> , 2009 , 28, 463-472	1.7	8
67	Structure of the O-polysaccharide and characterization of the O-antigen gene cluster of Salmonella enterica O53. <i>Carbohydrate Research</i> , 2011 , 346, 373-6	2.9	8
66	A gene cluster at an unusual chromosomal location responsible for the novel O-antigen synthesis in Escherichia coli O62 by the ABC transporter-dependent pathway. <i>Glycobiology</i> , 2017 , 27, 669-676	5.8	7
65	Structure and genetics of the O-antigen of Enterobacter cloacae G3054 containing di-N-acetylpsseudaminic acid. <i>Carbohydrate Research</i> , 2015 , 407, 59-62	2.9	7

64	Structure and gene cluster of the O-antigen of Salmonella enterica O44. <i>Carbohydrate Research</i> , 2010 , 345, 2099-101	2.9	7
63	Structural and genetic characterization of the O-antigen of Salmonella enterica O56 containing a novel derivative of 4-amino-4,6-dideoxy-D-glucose. <i>Carbohydrate Research</i> , 2010 , 345, 1891-5	2.9	7
62	Structure of the O-polysaccharide of Proteus serogroup O34 containing 2-acetamido-2-deoxy- α -D-galactosyl phosphate. <i>Carbohydrate Research</i> , 2004 , 339, 2145-9	2.9	7
61	Structure of the O-specific polysaccharide of Proteus vulgaris O45 containing 3-acetamido-3,6-dideoxy-D-galactose. <i>Carbohydrate Research</i> , 2003 , 338, 327-31	2.9	7
60	Structure of the O-polysaccharide and serological studies of the lipopolysaccharide of Proteus mirabilis 2002. <i>Carbohydrate Research</i> , 2005 , 340, 2305-10	2.9	7
59	Structure and genetics of the O-antigens of Escherichia coli O182-O187. <i>Carbohydrate Research</i> , 2016 , 435, 58-67	2.9	7
58	Structural and genetic characterization of the O-antigen of Enterobacter cloacae C5529 related to the O-antigen of E. cloacae G3054. <i>Carbohydrate Research</i> , 2017 , 443-444, 49-52	2.9	6
57	Structure and gene cluster of the O-antigen of Escherichia coli O165 containing 5-N-acetyl-7-N-[(R)-3-hydroxybutanoyl]pseudaminic acid. <i>Glycobiology</i> , 2016 , 26, 335-42	5.8	6
56	Structure of the O-specific polysaccharide from a marine bacterium Cellulophaga pacifica containing rarely occurred sugars, Fuc4NAc and ManNAcA. <i>Carbohydrate Research</i> , 2013 , 372, 69-72	2.9	6
55	Structure and gene cluster of the O-antigen of Escherichia coli O120. <i>Carbohydrate Research</i> , 2012 , 353, 106-10	2.9	6
54	Structure and gene cluster of the O-antigen of Escherichia coli O109; chemical and genetic evidences of the presence of L-RhaN3N derivatives in the O-antigens of E. coli O109 and O119. <i>FEMS Immunology and Medical Microbiology</i> , 2011 , 61, 47-53		6
53	Structure and genetics of the O-antigen of Escherichia coli O158. <i>Carbohydrate Research</i> , 2011 , 346, 2274-7		6
52	Structure of the O-polysaccharide of Salmonella enterica O41. <i>Carbohydrate Research</i> , 2010 , 345, 971-3	2.9	6
51	Structure of the O-specific polysaccharide of Proteus vulgaris O15 containing a novel regioisomer of N-acetylmuramic acid, 2-acetamido-4-O-[(R)-1-carboxyethyl]-2-deoxy-D-glucose. <i>Carbohydrate Research</i> , 2002 , 337, 2463-8	2.9	6
50	Structures of the O-specific polysaccharides and a serological cross-reactivity of the lipopolysaccharides of Proteus mirabilis O24 and O29. <i>FEBS Letters</i> , 1999 , 456, 227-31	3.8	6
49	Structures and genetics of biosynthesis of glycerol 1-phosphate-containing O-polysaccharides of Escherichia coli O28ab, O37, and O100. <i>Carbohydrate Research</i> , 2016 , 426, 26-32	2.9	6
48	Structure and genetics of the O-specific polysaccharide of Escherichia coli O27. <i>Carbohydrate Research</i> , 2018 , 456, 1-4	2.9	6
47	Structure and genetics of the O-antigen of Escherichia coli O169 related to the O-antigen of Shigella boydii type 6. <i>Carbohydrate Research</i> , 2015 , 414, 46-50	2.9	5

46	Structural and genetic studies of the O-antigen of <i>Enterobacter cloacae</i> G2277. <i>Carbohydrate Research</i> , 2014 , 387, 10-3	2.9	5
45	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O102. <i>Carbohydrate Research</i> , 2012 , 361, 73-7	2.9	5
44	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O110 containing an amide of D-galacturonic acid with D-allothreonine. <i>Carbohydrate Research</i> , 2013 , 368, 57-60	2.9	5
43	Structure and gene cluster of the O-antigen of <i>Enterobacter cloacae</i> G3421. <i>Carbohydrate Research</i> , 2016 , 427, 55-9	2.9	5
42	Structure elucidation and biosynthesis gene cluster organization of the O-antigen of <i>Escherichia coli</i> O170. <i>Carbohydrate Research</i> , 2015 , 417, 11-4	2.9	4
41	Structure and gene cluster of the O-polysaccharide from <i>Pseudomonas veronii</i> A-6-5 and its uranium bonding. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2197-2204	7.9	4
40	O-antigen structure and gene clusters of <i>Escherichia coli</i> O51 and <i>Salmonella enterica</i> O57; another instance of identical O-antigens in the two species. <i>Carbohydrate Research</i> , 2011 , 346, 828-32	2.9	4
39	Structure of the O-polysaccharide of <i>Proteus mirabilis</i> CCUG 10705 (OF) containing an amide of D-galacturonic acid with L-alanine. <i>Carbohydrate Research</i> , 2006 , 341, 1969-74	2.9	4
38	Structure of the O-polysaccharide of <i>Proteus mirabilis</i> CCUG 10701 (OB) classified into a new <i>Proteus</i> serogroup, O74. <i>Carbohydrate Research</i> , 2004 , 339, 1395-8	2.9	4
37	Correlation of <i>Acinetobacter baumannii</i> K144 and K86 capsular polysaccharide structures with genes at the K locus reveals the involvement of a novel multifunctional rhamnosyltransferase for structural synthesis. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 1294-1294	7.9	4
36	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O133. <i>Carbohydrate Research</i> , 2016 , 430, 82-84	2.9	4
35	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O156 containing a pyruvic acid acetal. <i>Carbohydrate Research</i> , 2016 , 430, 24-28	2.9	4
34	Structure and genetics of biosynthesis of the glycosyl phosphate-containing O-polysaccharide of <i>Escherichia coli</i> O160. <i>Carbohydrate Research</i> , 2015 , 417, 89-93	2.9	3
33	Structure and genetics of a glycerol 2-phosphate-containing O-specific polysaccharide of <i>Escherichia coli</i> O33. <i>Carbohydrate Research</i> , 2018 , 460, 47-50	2.9	3
32	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O154. <i>Carbohydrate Research</i> , 2013 , 379, 51-4	2.9	3
31	Structure and gene cluster of the O-antigen of <i>Enterobacter cloacae</i> C4115. <i>Carbohydrate Research</i> , 2017 , 448, 110-114	2.9	3
30	Structure and gene cluster of the O-antigen of <i>Escherichia coli</i> O19ab. <i>Carbohydrate Research</i> , 2011 , 346, 2812-5	2.9	3
29	Structure of the O-polysaccharide of <i>Vibrio cholerae</i> O43 containing a new monosaccharide derivative, 4-(N-acetyl-l-allothreonyl)amino-4,6-dideoxy-D-glucose. <i>Carbohydrate Research</i> , 2011 , 346, 430-3	2.9	3

28	Structural studies on the O-polysaccharide of Escherichia coli O57. <i>Carbohydrate Research</i> , 2018 , 465, 1-3	2.9	3
27	Structure of the O-polysaccharide of Proteus mirabilis O19 and reclassification of certain Proteus strains that were formerly classified in serogroup O19. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2004 , 52, 188-96	4	3
26	Structure and gene cluster of the O-antigen of Escherichia coli O140. <i>Carbohydrate Research</i> , 2015 , 411, 33-6	2.9	2
25	Structures and gene clusters of the closely related O-antigens of Escherichia coli O46 and O134, both containing D-glucuronoyl-D-allothreonine. <i>Carbohydrate Research</i> , 2015 , 409, 20-4	2.9	2
24	Structure and gene cluster of the O-antigen of Escherichia coli O54. <i>Carbohydrate Research</i> , 2018 , 462, 34-38	2.9	2
23	Structure elucidation and analysis of biosynthesis genes of the O-antigen of Escherichia coli O131 containing N-acetylneuraminic acid. <i>Carbohydrate Research</i> , 2016 , 436, 41-44	2.9	2
22	Structure elucidation and gene cluster characterization of the O-antigen of Escherichia coli O80. <i>Carbohydrate Research</i> , 2016 , 432, 83-7	2.9	2
21	Structure and gene cluster of the O-antigen of Escherichia coli O36. <i>Carbohydrate Research</i> , 2014 , 390, 46-9	2.9	2
20	Structure and gene cluster of the O-antigen of Escherichia coli O30. <i>Carbohydrate Research</i> , 2014 , 389, 196-8	2.9	2
19	Structures and gene clusters of the O-specific polysaccharides of the lipopolysaccharides of Escherichia coli O69 and O146 containing glycolactilic acids: ether conjugates of D-GlcNAc and D-Glc with (R)- and (S)-lactic acid. <i>Glycoconjugate Journal</i> , 2017 , 34, 71-84	3	2
18	Structural and genetic studies of the O-antigen of Escherichia coli O163. <i>Carbohydrate Research</i> , 2015 , 404, 34-8	2.9	2
17	Structure and gene cluster of the O-antigen of Escherichia coli O76. <i>Carbohydrate Research</i> , 2013 , 377, 14-7	2.9	2
16	Structure of the β -fucopyranosyl phosphate-containing O-specific polysaccharide of Escherichia coli O84. <i>International Journal of Biological Macromolecules</i> , 2016 , 88, 578-85	7.9	2
15	Structure elucidation and gene cluster annotation of the O-antigen of Vibrio cholerae O100 containing two rarely occurred amino sugar derivatives. <i>Carbohydrate Research</i> , 2019 , 472, 98-102	2.9	2
14	Structure of β -polysaccharide of Escherichia coli O95: a disaccharide repeating unit containing d-fucose and d-threo-pent-2-ulose (xylulose). <i>Russian Chemical Bulletin</i> , 2018 , 67, 1931-1933	1.7	2
13	Structure and gene cluster of the O-antigen of Escherichia coli O137. <i>Carbohydrate Research</i> , 2016 , 422, 13-6	2.9	1
12	Structure and gene cluster of the o-antigen of Escherichia coli o96. <i>Carbohydrate Research</i> , 2016 , 420, 1-5	2.9	1
11	Structure of a glucosyl phosphate-containing O-polysaccharide of Proteus vulgaris O42. <i>Carbohydrate Research</i> , 2007 , 342, 2826-31	2.9	1

10	Escherichia coli O106, a new member of a group of enteric bacteria sharing an O-polysaccharide backbone structure. <i>Russian Chemical Bulletin</i> , 2018 , 67, 1538-1541	1.7	1
9	Structural and genetic relatedness of the O-antigens of Escherichia coli O50 and O2. <i>Carbohydrate Research</i> , 2018 , 464, 8-11	2.9	1
8	Structure and gene cluster of the O-antigen of Escherichia coli strain SDLZB008. <i>Carbohydrate Research</i> , 2020 , 498, 108154	2.9	0
7	Structure and gene cluster of the O-antigen of Enterobacter cloacae G3422. <i>Carbohydrate Research</i> , 2021 , 510, 108440	2.9	0
6	NoteIdentification of 5,7-diacetamido-3,5,7,9-tetradeoxy-d-glycero-l-manno-non-2-ulosonic acid (di-N-acetyl-8-epipseudaminic acid) in the capsular polysaccharide of Acinetobacter baumannii Res546.. <i>Carbohydrate Research</i> , 2022 , 513, 108531	2.9	0
5	Structure elucidation and gene cluster characterization of the O-antigen of Vibrio cholerae O14. <i>Carbohydrate Research</i> , 2019 , 474, 67-71	2.9	
4	Structure elucidation and gene cluster characterization of the O-antigen of Vibrio cholerae O68 containing (2S,4R)-2,4-dihydroxypentanoic acid. <i>Carbohydrate Research</i> , 2019 , 484, 107766	2.9	
3	Structure of the O-antigen of a halophilic bacterium Salinicola salarius HO-14. <i>Carbohydrate Research</i> , 2020 , 497, 108149	2.9	
2	Structure elucidation and gene cluster annotation of the O-antigen of Pseudomonas veronii SHC-8-1 containing 2-acetamido-2,4,6-trideoxy-4-(3,5-dihydroxyhexanoylamino)-d-glucose. <i>Carbohydrate Research</i> , 2021 , 504, 108306	2.9	
1	Structure and genetics of the O-antigen of Enterobacter cloacae K7 containing di-N-acetylpsseudaminic acid. <i>Carbohydrate Research</i> , 2021 , 508, 108392	2.9	