

# Ian S Roberts

## List of Publications by Year in descending order

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56  
papers

3,564  
citations

186265

28  
h-index

155660

55  
g-index

81  
all docs

81  
docs citations

81  
times ranked

4699  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE BIOCHEMISTRY AND GENETICS OF CAPSULAR POLYSACCHARIDE PRODUCTION IN BACTERIA. Annual Review of Microbiology, 1996, 50, 285-315.	7.3	619
2	Structure, assembly and regulation of expression of capsules in <i>Escherichia coli</i> . Molecular Microbiology, 1999, 31, 1307-1319.	2.5	481
3	Chronic <i>Trichuris muris</i> Infection in C57BL/6 Mice Causes Significant Changes in Host Microbiota and Metabolome: Effects Reversed by Pathogen Clearance. PLoS ONE, 2015, 10, e0125945.	2.5	220
4	Purity of graphene oxide determines its antibacterial activity. 2D Materials, 2016, 3, 025025.	4.4	150
5	Characterization of <i>relA</i> and <i>codY</i> mutants of <i>Listeria monocytogenes</i> : identification of the <i>CodY</i> regulon and its role in virulence. Molecular Microbiology, 2007, 63, 1453-1467.	2.5	142
6	Detecting macroecological patterns in bacterial communities across independent studies of global soils. Nature Microbiology, 2018, 3, 189-196.	13.3	136
7	<i>Listeria monocytogenes relA</i> and <i>hpt</i> Mutants Are Impaired in Surface-Attached Growth and Virulence. Journal of Bacteriology, 2002, 184, 621-628.	2.2	131
8	Manipulation of host and parasite microbiotas: Survival strategies during chronic nematode infection. Science Advances, 2018, 4, eaap7399.	10.3	106
9	Analysis of the K1 capsule biosynthesis genes of <i>Escherichia coli</i> : Definition of three functional regions for capsule production. Molecular Genetics and Genomics, 1987, 208, 242-246.	2.4	89
10	The cell surface expression of group 2 capsular polysaccharides in <i>Escherichia coli</i> : the role of <i>KpsD</i> , <i>RhsA</i> and a multi-protein complex at the pole of the cell. Molecular Microbiology, 2006, 59, 907-922.	2.5	86
11	Region 2 of the <i>Escherichia coli</i> K5 capsule gene cluster encoding proteins for the biosynthesis of the K5 polysaccharide. Molecular Microbiology, 1995, 17, 611-620.	2.5	81
12	Regulation of the <i>Escherichia coli</i> K5 capsule gene cluster by transcription antitermination. Molecular Microbiology, 1997, 24, 1001-1012.	2.5	81
13	Regulation of the <i>Escherichia coli</i> K5 Capsule Gene Cluster: Evidence for the Roles of H-NS, BipA, and Integration Host Factor in Regulation of Group 2 Capsule Gene Clusters in Pathogenic <i>E. coli</i> . Journal of Bacteriology, 2000, 182, 2741-2745.	2.2	80
14	Expression of <i>Streptococcus pneumoniae</i> Bacteriocins Is Induced by Antibiotics via Regulatory Interplay with the Competence System. PLoS Pathogens, 2016, 12, e1005422.	4.7	78
15	The combined actions of the copper-responsive repressor <i>CsoR</i> and copper-metallochaperone <i>CopZ</i> modulate <i>CopA</i> -mediated copper efflux in the intracellular pathogen <i>Listeria monocytogenes</i> . Molecular Microbiology, 2011, 81, 457-472.	2.5	76
16	Two Zinc Uptake Systems Contribute to the Full Virulence of <i>Listeria monocytogenes</i> during Growth <i>In Vitro</i> and <i>In Vivo</i> . Infection and Immunity, 2012, 80, 14-21.	2.2	69
17	Identification That <i>KfiA</i> , a Protein Essential for the Biosynthesis of the <i>Escherichia coli</i> K5 Capsular Polysaccharide, Is an $\beta$ -UDP-GlcNAc Glycosyltransferase. Journal of Biological Chemistry, 2000, 275, 27311-27315.	3.4	66
18	The localization of <i>KpsC</i> , <i>S</i> and <i>T</i> , and <i>KfiA</i> , <i>C</i> and <i>D</i> proteins involved in the biosynthesis of the <i>Escherichia coli</i> K5 capsular polysaccharide: evidence for a membrane-bound complex. Microbiology (United Kingdom), 1998, 144, 2905-2914.	1.8	65

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19	SlyA and H-NS Regulate Transcription of the Escherichia coli K5 Capsule Gene Cluster, and Expression of slyA in Escherichia coli Is Temperature-dependent, Positively Autoregulated, and Independent of H-NS. <i>Journal of Biological Chemistry</i> , 2007, 282, 33326-33335.	3.4	53
20	ILC2s mediate systemic innate protection by priming mucus production at distal mucosal sites. <i>Journal of Experimental Medicine</i> , 2019, 216, 2714-2723.	8.5	52
21	Cloning, Expression, and Purification of the K5 Capsular Polysaccharide Lyase (KfIA) from Coliphage K5A: Evidence for Two Distinct K5 Lyase Enzymes. <i>Journal of Bacteriology</i> , 2000, 182, 3761-3766.	2.2	51
22	Capsular Polysaccharides in Escherichia coli. <i>Advances in Applied Microbiology</i> , 2008, 65, 1-26.	2.4	45
23	Diverse Ecological Strategies Are Encoded by <i>Streptococcus pneumoniae</i> Bacteriocin-Like Peptides. <i>Genome Biology and Evolution</i> , 2016, 8, 1072-1090.	2.5	43
24	The K5 Capsule of Escherichia coli Strain Nissle 1917 Is Important in Stimulating Expression of Toll-Like Receptor 5, CD14, MyD88, and TRIF Together with the Induction of Interleukin-8 Expression via the Mitogen-Activated Protein Kinase Pathway in Epithelial Cells. <i>Infection and Immunity</i> , 2010, 78, 2153-2162.	2.2	41
25	The Transport of Group 2 Capsular Polysaccharides across the Periplasmic Space in Escherichia coli. <i>Journal of Biological Chemistry</i> , 2001, 276, 4245-4250.	3.4	39
26	Regulation of Escherichia coli K5 capsular polysaccharide expression: Evidence for involvement of RfaH in the expression of group II capsules. <i>FEMS Microbiology Letters</i> , 1994, 124, 93-98.	1.8	37
27	Isolation from recombinant Escherichia coli and characterization of CMP-Kdo synthetase, involved in the expression of the capsular K5 polysaccharide (K-CKS). <i>FEMS Microbiology Letters</i> , 1995, 125, 159-164.	1.8	34
28	Characterisation of IS1126 from Porphyromonas gingivalis W83: a new member of the IS4 family of insertion sequence elements. <i>FEMS Microbiology Letters</i> , 1994, 123, 219-224.	1.8	33
29	Eavesdropping and crosstalk between secreted quorum sensing peptide signals that regulate bacteriocin production in <i>Streptococcus pneumoniae</i> . <i>ISME Journal</i> , 2018, 12, 2363-2375.	9.8	32
30	Functional characterization of the mucus barrier on the <i>Xenopus tropicalis</i> skin surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 726-731.	7.1	27
31	Phenotypic Heterogeneity in Expression of the K1 Polysaccharide Capsule of Uropathogenic Escherichia coli and Downregulation of the Capsule Genes during Growth in Urine. <i>Infection and Immunity</i> , 2015, 83, 2605-2613.	2.2	26
32	Listeria monocytogenes Has Both Cytochrome <i>bd</i> -Type and Cytochrome <i>aa</i> <sub>3</sub> -Type Terminal Oxidases, Which Allow Growth at Different Oxygen Levels, and Both Are Important in Infection. <i>Infection and Immunity</i> , 2017, 85, .	2.2	26
33	Super-Resolution Fluorescence Microscopy Study of the Production of K1 Capsules by <i>Escherichia coli</i> : Evidence for the Differential Distribution of the Capsule at the Poles and the Equator of the Cell. <i>Langmuir</i> , 2019, 35, 5635-5646.	3.5	25
34	Regulation of Expression of the Region 3 Promoter of the <i>Escherichia coli</i> K5 Capsule Gene Cluster Involves H-NS, SlyA, and a Large 5' Untranslated Region. <i>Journal of Bacteriology</i> , 2009, 191, 1838-1846.	2.2	23
35	Metal Ion Homeostasis in Listeria monocytogenes and Importance in Host-Pathogen Interactions. <i>Advances in Microbial Physiology</i> , 2014, 65, 83-123.	2.4	21
36	Investigating the Molecular Basis for the Virulence of <i>Escherichia coli</i> K5 by Nuclear Magnetic Resonance Analysis of the Capsule Polysaccharide. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 17, 71-82.	1.0	20

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37	The role of microbial polysaccharides in host-pathogen interaction. <i>F1000 Biology Reports</i> , 2009, 1, 30.	4.0	19
38	Regulatory RNAs: A Universal Language for Inter-Domain Communication. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8919.	4.1	18
39	Lamellipodin Is Important for Cell-to-Cell Spread and Actin-Based Motility in <i>Listeria monocytogenes</i> . <i>Infection and Immunity</i> , 2015, 83, 3740-3748.	2.2	16
40	The interplay between <i>Trichuris</i> and the microbiota. <i>Parasitology</i> , 2021, 148, 1806-1813.	1.5	16
41	Inhibition of Calpain Blocks the Phagosomal Escape of <i>Listeria monocytogenes</i> . <i>PLoS ONE</i> , 2012, 7, e35936.	2.5	15
42	Human mast cells exhibit an individualized pattern of antimicrobial responses. <i>Immunity, Inflammation and Disease</i> , 2020, 8, 198-210.	2.7	15
43	Bacterial Surfaces: Front Lines in Host-Pathogen Interaction. <i>Advances in Experimental Medicine and Biology</i> , 2016, 915, 129-156.	1.6	12
44	Recombinant Plants Provide a New Approach to the Production of Bacterial Polysaccharide for Vaccines. <i>PLoS ONE</i> , 2014, 9, e88144.	2.5	11
45	Three tandem promoters, together with IHF, regulate growth phase dependent expression of the <i>Escherichia coli</i> kps capsule gene cluster. <i>Scientific Reports</i> , 2017, 7, 17924.	3.3	10
46	Pherotype Polymorphism in <i>Streptococcus pneumoniae</i> Has No Obvious Effects on Population Structure and Recombination. <i>Genome Biology and Evolution</i> , 2017, 9, 2546-2559.	2.5	9
47	Bacterial Polysaccharide Capsules. , 2010, , 111-132.		8
48	The Behaviour of Both <i>Listeria monocytogenes</i> and Rat Ciliated Ependymal Cells Is Altered during Their Co-Culture. <i>PLoS ONE</i> , 2010, 5, e10450.	2.5	7
49	Regulation of <i>Escherichia coli</i> Group 2 Capsule Gene Expression: A Mini Review and Update. <i>Frontiers in Microbiology</i> , 2022, 13, 858767.	3.5	7
50	The <i>Escherichia coli</i> K5 Capsule Is Not Synthesized in a Protected Compartment within the Cytoplasm. <i>Journal of Bacteriology</i> , 2009, 191, 1716-1718.	2.2	5
51	Quenched Stochastic Optical Reconstruction Microscopy (qSTORM) with Graphene Oxide. <i>Scientific Reports</i> , 2018, 8, 16928.	3.3	4
52	Capsule production in <i>Escherichia coli</i> : co-ordinate regulation of biosynthesis and export by environmental factors. <i>Biochemical Society Transactions</i> , 1991, 19, 628-630.	3.4	2
53	Utilization of transferrin-bound iron by <i>Listeria monocytogenes</i> . <i>FEMS Microbiology Letters</i> , 1993, 108, 311-318.	1.8	2
54	Isolation from recombinant <i>Escherichia coli</i> and characterization of CMP-Kdo synthetase, involved in the expression of the capsular K5 polysaccharide (K-CKS). <i>FEMS Microbiology Letters</i> , 1995, 125, 159-164.	1.8	2

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55	Characterisation of IS1126 from <i>Porphyromonas gingivalis</i> W83: a new member of the IS4 family of insertion sequence elements. <i>FEMS Microbiology Letters</i> , 1994, 123, 219-224.	1.8	1
56	Regulation of <i>Escherichia coli</i> K5 capsular polysaccharide expression: Evidence for involvement of RfaH in the expression of group II capsules. <i>FEMS Microbiology Letters</i> , 1994, 124, 93-98.	1.8	1