Andrew J Roe

List of Publications by Year in Descending Order

79 papers	2,898 citations	32 h-index	53 g-index
87 ext. papers	3,391 ext. citations	5.7 avg, IF	4.76 L-index

#	Paper	IF	Citations
79	d-Serine induces distinct transcriptomes in diverse pathotypes. *Microbiology (United Kingdom)*, **2021**, 167,	2.9	1
78	The force awakens: The dark side of mechanosensing in bacterial pathogens. *Cellular Signalling*, **2021**, 78, 109867	4.9	5
77	Heterogeneity in populations of enterohaemorrhagic Escherichia coli undergoing D-serine adaptation. *Current Genetics*, **2021**, 67, 221-224	2.9	0
76	Prokaryotic life finds a way: insights from evolutionary experimentation in bacteria. *Critical Reviews in Microbiology*, **2021**, 47, 126-140	7.8	1
75	Transcriptional and metabolic regulation of EHEC and Citrobacter rodentium pathogenesis. *Current Opinion in Microbiology*, **2021**, 63, 70-75	7.9	2
74	Aldehyde-alcohol dehydrogenase undergoes structural transition to form extended spirosomes for substrate channeling. *Communications Biology*, **2020**, 3, 298	6.7	6
73	A highly conserved complete accessory Escherichia coli type III secretion system 2 is widespread in bloodstream isolates of the ST69 lineage. *Scientific Reports*, **2020**, 10, 4135	4.9	4
72	Plastic Circuits: Regulatory Flexibility in Fine Tuning Pathogen Success. *Trends in Microbiology*, **2020**, 28, 360-371	12.4	5
71	Propionic Acid Promotes the Virulent Phenotype of Crohn's Disease-Associated Adherent-Invasive Escherichia coli. *Cell Reports*, **2020**, 30, 2297-2305.e5	10.6	24
70	High-resolution structure of the alcohol dehydrogenase domain of the bifunctional bacterial enzyme AdhE. *Acta Crystallographica Section F, Structural Biology Communications*, **2020**, 76, 414-421	1.1	
69	Widespread Strain-Specific Distinctions in Chromosomal Binding Dynamics of a Highly Conserved Escherichia coli Transcription Factor. *MBio*, **2020**, 11,	7.8	1
68	Genomic plasticity of pathogenic mediates d-serine tolerance via multiple adaptive mechanisms. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22484-22493	11.5	3
67	Aldehyde-alcohol dehydrogenase forms a high-order spirosome architecture critical for its activity. *Nature Communications*, **2019**, 10, 4527	17.4	17
66	Structure and ligand binding of As-p18, an extracellular fatty acid binding protein from the eggs of a parasitic nematode. *Bioscience Reports*, **2019**, 39,	4.1	3
65	Genomic and transcriptomic characterization of Pseudomonas aeruginosa small colony variants derived from a chronic infection model. *Microbial Genomics*, **2019**, 5,	4.4	7
64	Distinct intraspecies virulence mechanisms regulated by a conserved transcription factor. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 19695-19704	11.5	6
63	Control freaks-signals and cues governing the regulation of virulence in attaching and effacing pathogens. *Biochemical Society Transactions*, **2019**, 47, 229-238	5.1	10

62	Characterization of the Mode of Action of Aurodox, a Type III Secretion System Inhibitor from Streptomyces goldiniensis. *Infection and Immunity*, **2019**, 87,	3.7	15
61	Postgenomics Characterization of an Essential Genetic Determinant of Mammary Pathogenic. *MBio*, **2018**, 9,	7.8	25
60	Tracking elusive cargo: Illuminating spatio-temporal Type 3 effector protein dynamics using reporters. *Cellular Microbiology*, **2018**, 20, e12797	3.9	5
59	Host-associated niche metabolism controls enteric infection through fine-tuning the regulation of type 3 secretion. *Nature Communications*, **2018**, 9, 4187	17.4	23
58	Antibiotics induce sustained dysregulation of intestinal T cell immunity by perturbing macrophage homeostasis. *Science Translational Medicine*, **2018**, 10,	17.5	104
57	Novel compounds targeting the enterohemorrhagic Escherichia coli type three secretion system reveal insights into mechanisms of secretion inhibition. *Molecular Microbiology*, **2017**, 105, 606-619	4.1	14
56	Disarming the enemy: targeting bacterial toxins with small molecules. *Emerging Topics in Life Sciences*, **2017**, 1, 31-39	3.5	1
55	Intracellular d-Serine Accumulation Promotes Genetic Diversity via Modulated Induction of RecA in Enterohemorrhagic Escherichia coli. *Journal of Bacteriology*, **2016**, 198, 3318-3328	3.5	6
54	Lighting Up Clostridium Difficile: Reporting Gene Expression Using Fluorescent Lov Domains. *Scientific Reports*, **2016**, 6, 23463	4.9	36
53	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. *PLoS Pathogens*, **2016**, 12, e1005359	7.6	35
52	When and where? Pathogenic differentially sense host D-serine using a universal transporter system to monitor their environment. *Microbial Cell*, **2016**, 3, 181-184	3.9	2
51	Identification and Characterization of Novel Compounds Blocking Shiga Toxin Expression in O157:H7. *Frontiers in Microbiology*, **2016**, 7, 1930	5.7	8
50	Visualizing the Translocation and Localization of Bacterial Type III Effector Proteins by Using a Genetically Encoded Reporter System. *Applied and Environmental Microbiology*, **2016**, 82, 2700-2708	4.8	20
49	LOV-based reporters for fluorescence imaging. *Current Opinion in Chemical Biology*, **2015**, 27, 39-45	9.7	75
48	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. *ISME Journal*, **2015**, 9, 1039-51	11.9	28
47	Diversity in the structures and ligand-binding sites of nematode fatty acid and retinol-binding proteins revealed by Na-FAR-1 from Necator americanus. *Biochemical Journal*, **2015**, 471, 403-14	3.8	24
46	Cultured enterocytes internalise bacteria across their basolateral surface for, pathogen-inhibitable, trafficking to the apical compartment. *Scientific Reports*, **2015**, 5, 17359	4.9	2
45	From ingestion to colonization: the influence of the host environment on regulation of the LEE encoded type III secretion system in enterohaemorrhagic Escherichia coli. *Frontiers in Microbiology*, **2015**, 6, 568	5.7	45

44	Development of antivirulence compounds: a biochemical review. *Chemical Biology and Drug Design*, **2015**, 85, 43-55	2.9	27
43	From screen to target: insights and approaches for the development of anti-virulence compounds. *Frontiers in Cellular and Infection Microbiology*, **2014**, 4, 139	5.9	12
42	The metabolic enzyme AdhE controls the virulence of Escherichia coli O157:H7. *Molecular Microbiology*, **2014**, 93, 199-211	4.1	40
41	High-throughput methods for the detection of protein overexpression using fluorescence markers. *Methods in Cell Biology*, **2013**, 113, 189-208	1.8	
40	The structure of an orthorhombic crystal form of a 'forced reduced' thiol peroxidase reveals lattice formation aided by the presence of the affinity tag. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 522-6		2
39	Two crystal forms of a helix-rich fatty acid- and retinol-binding protein, Na-FAR-1, from the parasitic nematode Necator americanus. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 835-8		5
38	Useable diffraction data from a multiple microdomain-containing crystal of Ascaris suum As-p18 fatty-acid-binding protein using a microfocus beamline. *Acta Crystallographica Section F: Structural Biology Communications*, **2012**, 68, 939-41		2
37	Salmonella transforms follicle-associated epithelial cells into M cells to promote intestinal invasion. *Cell Host and Microbe*, **2012**, 12, 645-56	23.4	119
36	LOV to BLUF: flavoprotein contributions to the optogenetic toolkit. *Molecular Plant*, **2012**, 5, 533-44	14.4	95
35	High-Throughput Methods for the Identification of Protein Purification Conditions Using a Cleavable Tag System. *Methods in Cell Biology*, **2012**, 112, 93-110	1.8	1
34	Structural characterisation of Tpx from Yersinia pseudotuberculosis reveals insights into the binding of salicylidene acylhydrazide compounds. *PLoS ONE*, **2012**, 7, e32217	3.7	15
33	Expression and regulation of the Escherichia coli O157:H7 effector proteins NleH1 and NleH2. *PLoS ONE*, **2012**, 7, e33408	3.7	12
32	Express your LOV: an engineered flavoprotein as a reporter for protein expression and purification. *PLoS ONE*, **2012**, 7, e52962	3.7	20
31	FolX from Pseudomonas aeruginosa is octameric in both crystal and solution. *FEBS Letters*, **2012**, 586, 1160-5	3.8	3
30	Lysogeny with Shiga toxin 2-encoding bacteriophages represses type III secretion in enterohemorrhagic Escherichia coli. *PLoS Pathogens*, **2012**, 8, e1002672	7.6	46
29	High-throughput identification of purification conditions leads to preliminary crystallization conditions for three inner membrane proteins. *Molecular Membrane Biology*, **2011**, 28, 445-53	3.4	5
28	Identification of bacterial target proteins for the salicylidene acylhydrazide class of virulence-blocking compounds. *Journal of Biological Chemistry*, **2011**, 286, 29922-31	5.4	78
27	Transcriptional regulators of the GAD acid stress island are carried by effector protein-encoding prophages and indirectly control type III secretion in enterohemorrhagic Escherichia coli O157:H7. *Molecular Microbiology*, **2011**, 80, 1349-65	4.1	38

26	The EspF effector, a bacterial pathogen's Swiss army knife. *Infection and Immunity*, **2010**, 78, 4445-53	3.7	58
25	Expression, purification, crystallization and initial X-ray diffraction analysis of thiol peroxidase from Yersinia pseudotuberculosis. *Acta Crystallographica Section F: Structural Biology Communications*, **2010**, 66, 1606-9		5
24	An investigation of the expression and adhesin function of H7 flagella in the interaction of Escherichia coli O157 : H7 with bovine intestinal epithelium. *Cellular Microbiology*, **2009**, 11, 121-37	3.9	109
23	Controlling injection: regulation of type III secretion in enterohaemorrhagic Escherichia coli. *Trends in Microbiology*, **2009**, 17, 361-70	12.4	65
22	Characterization of the effects of salicylidene acylhydrazide compounds on type III secretion in Escherichia coli O157:H7. *Infection and Immunity*, **2009**, 77, 4209-20	3.7	57
21	Hierarchal type III secretion of translocators and effectors from Escherichia coli O157:H7 requires the carboxy terminus of SepL that binds to Tir. *Molecular Microbiology*, **2008**, 69, 1499-512	4.1	58
20	Increased adherence and actin pedestal formation by dam-deficient enterohaemorrhagic Escherichia coli O157:H7. *Molecular Microbiology*, **2007**, 63, 1468-81	4.1	45
19	Analysis of the expression, regulation and export of NleA-E in Escherichia coli O157 : H7. *Microbiology (United Kingdom)*, **2007**, 153, 1350-1360	2.9	42
18	Demonstration of regulatory cross-talk between P fimbriae and type 1 fimbriae in uropathogenic Escherichia coli. *Microbiology (United Kingdom)*, **2006**, 152, 1143-1153	2.9	67
17	Analysis of fimbrial gene clusters and their expression in enterohaemorrhagic Escherichia coli O157:H7. *Environmental Microbiology*, **2006**, 8, 1033-47	5.2	82
16	A comparison of enteropathogenic and enterohaemorrhagic Escherichia coli pathogenesis. *FEMS Microbiology Letters*, **2006**, 255, 187-202	2.9	102
15	Generation of gene deletions and gene replacements in Escherichia coli O157:H7 using a temperature sensitive allelic exchange system. *Biological Procedures Online*, **2006**, 8, 153-62	8.3	20
14	Escherichia coli O157 : H7 forms attaching and effacing lesions at the terminal rectum of cattle and colonization requires the LEE4 operon. *Microbiology (United Kingdom)*, **2005**, 151, 2773-2781	2.9	122
13	Regulators encoded in the Escherichia coli type III secretion system 2 gene cluster influence expression of genes within the locus for enterocyte effacement in enterohemorrhagic E. coli O157:H7. *Infection and Immunity*, **2004**, 72, 7282-93	3.7	82
12	Mutation of toxB and a truncated version of the efa-1 gene in Escherichia coli O157:H7 influences the expression and secretion of locus of enterocyte effacement-encoded proteins but not intestinal colonization in calves or sheep. *Infection and Immunity*, **2004**, 72, 5402-11	3.7	77
11	Co-ordinate single-cell expression of LEE4- and LEE5-encoded proteins of Escherichia coli O157:H7. *Molecular Microbiology*, **2004**, 54, 337-52	4.1	49
10	Direct and indirect transcriptional activation of virulence genes by an AraC-like protein, PerA from enteropathogenic Escherichia coli. *Molecular Microbiology*, **2004**, 54, 1117-33	4.1	62
9	Heterogeneous surface expression of EspA translocon filaments by Escherichia coli O157:H7 is controlled at the posttranscriptional level. *Infection and Immunity*, **2003**, 71, 5900-9	3.7	75

8	Inhibition of Escherichia coli growth by acetic acid: a problem with methionine biosynthesis and homocysteine toxicity. *Microbiology (United Kingdom)*, **2002**, 148, 2215-2222	2.9	234
7	Differences in levels of secreted locus of enterocyte effacement proteins between human disease-associated and bovine Escherichia coli O157. *Infection and Immunity*, **2001**, 69, 5107-14	3.7	69
6	Analysis of type 1 fimbriae expression in verotoxigenic Escherichia coli: a comparison between serotypes O157 and O26. *Microbiology (United Kingdom)*, **2001**, 147, 145-52	2.9	61
5	Enteropathogenic and enterohaemorrhagic Escherichia coli and diarrhoea. *Current Opinion in Infectious Diseases*, **2000**, 13, 511-517	5.4	12
4	Rapid inactivation of the Escherichia coli Kdp K+ uptake system by high potassium concentrations. *Molecular Microbiology*, **2000**, 35, 1235-43	4.1	43
3	Perturbation of anion balance during inhibition of growth of Escherichia coli by weak acids. *Journal of Bacteriology*, **1998**, 180, 767-72	3.5	213
2	Propionic acid promotes the virulent phenotype of Crohn disease-associated adherent-invasive Escherichia coli		2
1	Bacterial outer membrane vesicles provide an alternative pathway for trafficking of type III secreted effectors into epithelial cells		2