

# Brian K Coombes

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

5,289  
citations

40  
h-index

71  
g-index

106  
ext. papers

6,326  
ext. citations

9.7  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
102	Psychological stress impairs IL22-driven protective gut mucosal immunity against colonising pathobionts. <i>Nature Communications</i> , <b>2021</b> , 12, 6664	17.4	5
101	High-throughput fitness screening and transcriptomics identify a role for a type IV secretion system in the pathogenesis of Crohn's disease-associated Escherichia coli. <i>Nature Communications</i> , <b>2021</b> , 12, 2032	17.4	8
100	Emerging and divergent roles of pyrophosphorylated nucleotides in bacterial physiology and pathogenesis. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009532	7.6	2
99	(p)ppGpp-Dependent Regulation of the Nucleotide Hydrolase PpnN Confers Complement Resistance in Salmonella enterica Serovar Typhimurium. <i>Infection and Immunity</i> , <b>2021</b> , 89,	3.7	1
98	Emergence of invasive Salmonella in Africa. <i>Nature Microbiology</i> , <b>2021</b> , 6, 273-274	26.6	0
97	Low dietary fiber promotes enteric expansion of a Crohn's disease-associated pathobiont independent of obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 321, E338-E350	6.3	1
96	Targeting Two-Component Systems Uncovers a Small-Molecule Inhibitor of Salmonella Virulence. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 793-805.e7	8.2	15
95	High-Throughput Chemical Screening for Inhibitors of Pathogenicity Island 2. <i>STAR Protocols</i> , <b>2020</b> , 1, 100057	1.4	
94	Evolution-guided discovery of antibiotics that inhibit peptidoglycan remodelling. <i>Nature</i> , <b>2020</b> , 578, 582-587	58.7	89
93	Mimicking the human environment in mice reveals that inhibiting biotin biosynthesis is effective against antibiotic-resistant pathogens. <i>Nature Microbiology</i> , <b>2020</b> , 5, 93-101	26.6	11
92	Genetic and Chemical Screening in Human Blood Serum Reveals Unique Antibacterial Targets and Compounds against Klebsiella pneumoniae. <i>Cell Reports</i> , <b>2020</b> , 32, 107927	10.6	5
91	Host-Specific Adaptive Diversification of Crohn's Disease-Associated Adherent-Invasive Escherichia coli. <i>Cell Host and Microbe</i> , <b>2019</b> , 25, 301-312.e5	23.4	29
90	The Unique Lifestyle of Crohn's Disease-Associated Adherent-Invasive Escherichia coli. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 2970-2981	6.5	13
89	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. <i>Science</i> , <b>2019</b> , 363,	33.3	78
88	Duodenal bacterial proteolytic activity determines sensitivity to dietary antigen through protease-activated receptor-2. <i>Nature Communications</i> , <b>2019</b> , 10, 1198	17.4	69
87	The Role of the Host in Driving Phenotypic Heterogeneity in Salmonella. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 508-523	12.4	9
86	Complete Genome Sequence of Citrobacter rodentium Strain DBS100. <i>Microbiology Resource Announcements</i> , <b>2019</b> , 8,	1.3	3

85	Antibiotics Potentiate Adherent-Invasive E. coli Infection and Expansion. <i>Inflammatory Bowel Diseases</i> , <b>2019</b> , 25, 711-721	4.5	10
84	A macrophage-based screen identifies antibacterial compounds selective for intracellular Salmonella Typhimurium. <i>Nature Communications</i> , <b>2019</b> , 10, 197	17.4	22
83	Overcoming mcr-1 mediated colistin resistance with colistin in combination with other antibiotics. <i>Nature Communications</i> , <b>2018</b> , 9, 458	17.4	118
82	A polymicrobial view of disease potential in Crohn's-associated adherent-invasive E. coli. <i>Gut Microbes</i> , <b>2018</b> , 9, 166-174	8.8	17
81	Molecular basis for CesT recognition of type III secretion effectors in enteropathogenic Escherichia coli. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007224	7.6	10
80	Regulatory Evolution Drives Evasion of Host Inflammasomes by Salmonella Typhimurium. <i>Cell Reports</i> , <b>2018</b> , 25, 825-832.e5	10.6	13
79	Functional diversification of the NleG effector family in enterohemorrhagic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 10004-10009	11.5	11
78	Pentamidine sensitizes Gram-negative pathogens to antibiotics and overcomes acquired colistin resistance. <i>Nature Microbiology</i> , <b>2017</b> , 2, 17028	26.6	155
77	Muramyl Dipeptide-Based Postbiotics Mitigate Obesity-Induced Insulin Resistance via IRF4. <i>Cell Metabolism</i> , <b>2017</b> , 25, 1063-1074.e3	24.6	97
76	The transcriptional regulator SsrB is involved in a molecular switch controlling virulence lifestyles of Salmonella. <i>PLoS Pathogens</i> , <b>2017</b> , 13, e1006497	7.6	32
75	Evolution of Host Cell Interactions through a Dynamic Bacterial Genome. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2017</b> , 7, 428	5.9	50
74	Bacterial evolution: Making a host-adapted bacterium. <i>Nature Microbiology</i> , <b>2016</b> , 1, 16010	26.6	1
73	Acute Infectious Gastroenteritis Potentiates a Crohn's Disease Pathobiont to Fuel Ongoing Inflammation in the Post-Infectious Period. <i>PLoS Pathogens</i> , <b>2016</b> , 12, e1005907	7.6	26
72	CXCL9 contributes to antimicrobial protection of the gut during citrobacter rodentium infection independent of chemokine-receptor signaling. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004648	7.6	18
71	Multiple histidines in the periplasmic domain of the Salmonella enterica sensor kinase SsrA enhance signaling in response to extracellular acidification. <i>Molecular Microbiology</i> , <b>2015</b> , 95, 678-91	4.1	17
70	A Highly Effective Component Vaccine against Nontyphoidal Salmonella enterica Infections. <i>MBio</i> , <b>2015</b> , 6, e01421-15	7.8	10
69	Convergence of External Crohn's Disease Risk Factors on Intestinal Bacteria. <i>Frontiers in Immunology</i> , <b>2015</b> , 6, 558	8.4	12
68	Zinc Chelation by a Small-Molecule Adjuvant Potentiates Meropenem Activity in Vivo against NDM-1-Producing Klebsiella pneumoniae. <i>ACS Infectious Diseases</i> , <b>2015</b> , 1, 533-43	5.5	38

67	Aspergillomarasmine A overcomes metallo- $\beta$ -lactamase antibiotic resistance. <i>Nature</i> , <b>2014</b> , 510, 503-6	50.4	360
66	Host defense peptide resistance contributes to colonization and maximal intestinal pathology by Crohn's disease-associated adherent-invasive <i>Escherichia coli</i> . <i>Infection and Immunity</i> , <b>2014</b> , 82, 3383-93	3.7	35
65	Identification of the docking site between a type III secretion system ATPase and a chaperone for effector cargo. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 23734-44	5.4	26
64	<i>Salmonella</i> evades D-amino acid oxidase to promote infection in neutrophils. <i>MBio</i> , <b>2014</b> , 5, e01886	7.8	18
63	The SseC translocon component in <i>Salmonella enterica</i> serovar Typhimurium is chaperoned by SscA. <i>BMC Microbiology</i> , <b>2013</b> , 13, 221	4.5	4
62	Regulatory evolution at the host-pathogen interface. <i>Canadian Journal of Microbiology</i> , <b>2013</b> , 59, 365-7	3.2	3
61	Persistent infection with Crohn's disease-associated adherent-invasive <i>Escherichia coli</i> leads to chronic inflammation and intestinal fibrosis. <i>Nature Communications</i> , <b>2013</b> , 4, 1957	17.4	103
60	Mapping and regulation of genes within <i>Salmonella</i> pathogenicity island 12 that contribute to in vivo fitness of <i>Salmonella enterica</i> Serovar Typhimurium. <i>Infection and Immunity</i> , <b>2013</b> , 81, 2394-404	3.7	14
59	Active modification of host inflammation by <i>Salmonella</i> . <i>Gut Microbes</i> , <b>2013</b> , 4, 140-5	8.8	6
58	CD3 <sup>+</sup> NK1.1 <sup>+</sup> cells aid in the early induction of a Th1 response to an attaching and effacing enteric pathogen. <i>European Journal of Immunology</i> , <b>2013</b> , 43, 2638-49	6.1	19
57	GogB is an anti-inflammatory effector that limits tissue damage during <i>Salmonella</i> infection through interaction with human FBXO22 and Skp1. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002773	7.6	57
56	Characterization of DalS, an ATP-binding cassette transporter for D-alanine, and its role in pathogenesis in <i>Salmonella enterica</i> . <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 15242-50	5.4	19
55	Type VI secretion system-associated gene clusters contribute to pathogenesis of <i>Salmonella enterica</i> serovar Typhimurium. <i>Infection and Immunity</i> , <b>2012</b> , 80, 1996-2007	3.7	60
54	Novel repressor of <i>Escherichia coli</i> O157:H7 motility encoded in the putative fimbrial cluster OI-1. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 5343-52	3.5	15
53	A Fresh Look at the Type III Secretion System: Two-Step Model of Effector Translocation in Pathogenic Bacteria. <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 113	5.7	0
52	Transcriptional priming of <i>Salmonella</i> Pathogenicity Island-2 precedes cellular invasion. <i>PLoS ONE</i> , <b>2011</b> , 6, e21648	3.7	27
51	Combinations of antibiotics and nonantibiotic drugs enhance antimicrobial efficacy. <i>Nature Chemical Biology</i> , <b>2011</b> , 7, 348-50	11.7	347
50	A draft genome of <i>Yersinia pestis</i> from victims of the Black Death. <i>Nature</i> , <b>2011</b> , 478, 506-10	50.4	463

49	The non-motile phenotype of Salmonella hha ydgT mutants is mediated through PefI-SrgD. <i>BMC Microbiology</i> , <b>2011</b> , 11, 141	4.5	5
48	Characterization of Escherichia coli isolated from gut biopsies of newly diagnosed patients with inflammatory bowel disease. <i>Inflammatory Bowel Diseases</i> , <b>2011</b> , 17, 1451-63	4.5	60
47	The evolution of virulence in non-o157 shiga toxin-producing Escherichia coli. <i>Frontiers in Microbiology</i> , <b>2011</b> , 2, 90	5.7	48
46	Expression and secretion hierarchy in the nonflagellar type III secretion system. <i>Future Microbiology</i> , <b>2011</b> , 6, 193-202	2.9	11
45	Targeted enrichment of ancient pathogens yielding the pPCP1 plasmid of Yersinia pestis from victims of the Black Death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, E746-52	11.5	169
44	Humanized mice for Salmonella typhi infection: new tools for an old problem. <i>Virulence</i> , <b>2011</b> , 2, 248-52	4.7	27
43	Quantitative mass spectrometry catalogues Salmonella pathogenicity island-2 effectors and identifies their cognate host binding partners. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 24023-35	5.4	49
42	Salmonella phage ST64B encodes a member of the SseK/NleB effector family. <i>PLoS ONE</i> , <b>2011</b> , 6, e17824	4.7	52
41	Identification of the regulatory logic controlling Salmonella pathoadaptation by the SsrA-SsrB two-component system. <i>PLoS Genetics</i> , <b>2010</b> , 6, e1000875	6	61
40	NleG Type 3 effectors from enterohaemorrhagic Escherichia coli are U-Box E3 ubiquitin ligases. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000960	7.6	66
39	Structural and biochemical characterization of SrcA, a multi-cargo type III secretion chaperone in Salmonella required for pathogenic association with a host. <i>PLoS Pathogens</i> , <b>2010</b> , 6, e1000751	7.6	32
38	Genome sequence of adherent-invasive Escherichia coli and comparative genomic analysis with other E. coli pathotypes. <i>BMC Genomics</i> , <b>2010</b> , 11, 667	4.5	126
37	A general approach to the construction of structure-switching reporters from RNA aptamers. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 7938-42	16.4	52
36	Pathogenic adaptation of intracellular bacteria by rewiring a cis-regulatory input function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3982-7	11.5	48
35	Role of RpoS in the virulence of Citrobacter rodentium. <i>Infection and Immunity</i> , <b>2009</b> , 77, 501-7	3.7	20
34	Interleukin-15 and NK1.1+ cells provide innate protection against acute Salmonella enterica serovar Typhimurium infection in the gut and in systemic tissues. <i>Infection and Immunity</i> , <b>2009</b> , 77, 214-22	3.7	29
33	Salmonella-containing vacuoles display centrifugal movement associated with cell-to-cell transfer in epithelial cells. <i>Infection and Immunity</i> , <b>2009</b> , 77, 996-1007	3.7	34
32	Salmonella enterica serovar typhimurium exploits Toll-like receptor signaling during the host-pathogen interaction. <i>Infection and Immunity</i> , <b>2009</b> , 77, 4750-60	3.7	19

31	A novel inhibitor of <i>Chlamydomonas reinhardtii</i> protein kinase D (PknD) inhibits phosphorylation of CdsD and suppresses bacterial replication. <i>BMC Microbiology</i> , <b>2009</b> , 9, 218	4.5	13
30	RpoE fine tunes expression of a subset of SsrB-regulated virulence factors in <i>Salmonella enterica</i> serovar Typhimurium. <i>BMC Microbiology</i> , <b>2009</b> , 9, 45	4.5	16
29	Type III secretion systems in symbiotic adaptation of pathogenic and non-pathogenic bacteria. <i>Trends in Microbiology</i> , <b>2009</b> , 17, 89-94	12.4	41
28	<i>Salmonella enterica</i> serovar Senftenberg human clinical isolates lacking SPI-1. <i>Journal of Clinical Microbiology</i> , <b>2008</b> , 46, 1330-6	9.7	72
27	Molecular analysis as an aid to assess the public health risk of non-O157 Shiga toxin-producing <i>Escherichia coli</i> strains. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2153-60	4.8	151
26	FimH adhesin of type 1 fimbriae is a potent inducer of innate antimicrobial responses which requires TLR4 and type 1 interferon signalling. <i>PLoS Pathogens</i> , <b>2008</b> , 4, e1000233	7.6	84
25	Subinhibitory concentrations of tetracycline affect virulence gene expression in a multi-resistant <i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium DT104. <i>Microbes and Infection</i> , <b>2008</b> , 10, 901-7	9.3	25
24	<i>Citrobacter rodentium</i> virulence in mice associates with bacterial load and the type III effector NleE. <i>Microbes and Infection</i> , <b>2007</b> , 9, 400-7	9.3	35
23	Oral infection of mice with <i>Salmonella enterica</i> serovar Typhimurium causes meningitis and infection of the brain. <i>BMC Infectious Diseases</i> , <b>2007</b> , 7, 65	4	29
22	Virulence is positively selected by transmission success between mammalian hosts. <i>Current Biology</i> , <b>2007</b> , 17, 783-8	6.3	48
21	Thermosensing coordinates a cis-regulatory module for transcriptional activation of the intracellular virulence system in <i>Salmonella enterica</i> serovar Typhimurium. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 34077-84	5.4	35
20	Repression of intracellular virulence factors in <i>Salmonella</i> by the Hha and YdgT nucleoid-associated proteins. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 3669-73	3.5	40
19	SseL is a salmonella-specific translocated effector integrated into the SsrB-controlled salmonella pathogenicity island 2 type III secretion system. <i>Infection and Immunity</i> , <b>2007</b> , 75, 574-80	3.7	58
18	Crossing the line: selection and evolution of virulence traits. <i>PLoS Pathogens</i> , <b>2006</b> , 2, e42	7.6	73
17	Bacterial genetic determinants of non-O157 STEC outbreaks and hemolytic-uremic syndrome after infection. <i>Journal of Infectious Diseases</i> , <b>2006</b> , 194, 819-27	7	98
16	Mutational analysis of <i>Salmonella</i> translocated effector members SifA and SopD2 reveals domains implicated in translocation, subcellular localization and function. <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 2323-2343	2.9	29
15	Genetic and molecular analysis of GogB, a phage-encoded type III-secreted substrate in <i>Salmonella enterica</i> serovar typhimurium with autonomous expression from its associated phage. <i>Journal of Molecular Biology</i> , <b>2005</b> , 348, 817-30	6.5	49
14	Insertion of the bacterial type III translocon: not your average needle stick. <i>Trends in Microbiology</i> , <b>2005</b> , 13, 92-5	12.4	29

13	Salmonella pathogenicity island 2 is expressed prior to penetrating the intestine. <i>PLoS Pathogens</i> , <b>2005</b> , 1, e32	7.6	95
12	Negative regulation of Salmonella pathogenicity island 2 is required for contextual control of virulence during typhoid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 17460-5	11.5	85
11	Analysis of the contribution of Salmonella pathogenicity islands 1 and 2 to enteric disease progression using a novel bovine ileal loop model and a murine model of infectious enterocolitis. <i>Infection and Immunity</i> , <b>2005</b> , 73, 7161-9	3.7	126
10	Interpreting the host-pathogen dialogue through microarrays. <i>Advances in Applied Microbiology</i> , <b>2004</b> , 54, 291-331	4.9	6
9	Expression and secretion of Salmonella pathogenicity island-2 virulence genes in response to acidification exhibit differential requirements of a functional type III secretion apparatus and SsaL. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 49804-15	5.4	132
8	Evasive maneuvers by secreted bacterial proteins to avoid innate immune responses. <i>Current Biology</i> , <b>2004</b> , 14, R856-67	6.3	40
7	SseA is required for translocation of Salmonella pathogenicity island-2 effectors into host cells. <i>Microbes and Infection</i> , <b>2003</b> , 5, 561-70	9.3	31
6	Identification of MEK- and phosphoinositide 3-kinase-dependent signalling as essential events during Chlamydia pneumoniae invasion of HEp2 cells. <i>Cellular Microbiology</i> , <b>2002</b> , 4, 447-60	3.9	100
5	Chlamydia pneumoniae infection of endothelial cells induces transcriptional activation of platelet-derived growth factor-B: a potential link to intimal thickening in a rabbit model of atherosclerosis. <i>Journal of Infectious Diseases</i> , <b>2002</b> , 185, 1621-30	7	26
4	Dendritic cell discoveries provide new insight into the cellular immunobiology of DNA vaccines. <i>Immunology Letters</i> , <b>2001</b> , 78, 103-11	4.1	40
3	Chlamydia pneumoniae and atherosclerosis: does the evidence support a causal or contributory role?. <i>FEMS Microbiology Letters</i> , <b>2001</b> , 197, 1-9	2.9	48
2	cDNA array analysis of altered gene expression in human endothelial cells in response to Chlamydia pneumoniae infection. <i>Infection and Immunity</i> , <b>2001</b> , 69, 1420-7	3.7	67
1	Chlamydia pneumoniae infection of human endothelial cells induces proliferation of smooth muscle cells via an endothelial cell-derived soluble factor(s). <i>Infection and Immunity</i> , <b>1999</b> , 67, 2909-15	3.7	68