

Brian K Coombes

List of Publications by Citations

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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	A draft genome of <i>Yersinia pestis</i> from victims of the Black Death. <i>Nature</i> , 2011 , 478, 506-10	50.4	463
101	Aspergillomarasmine A overcomes metallo- β -lactamase antibiotic resistance. <i>Nature</i> , 2014 , 510, 503-6	50.4	360
100	Combinations of antibiotics and nonantibiotic drugs enhance antimicrobial efficacy. <i>Nature Chemical Biology</i> , 2011 , 7, 348-50	11.7	347
99	Targeted enrichment of ancient pathogens yielding the pPCP1 plasmid of <i>Yersinia pestis</i> from victims of the Black Death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E746-52	11.5	169
98	Pentamidine sensitizes Gram-negative pathogens to antibiotics and overcomes acquired colistin resistance. <i>Nature Microbiology</i> , 2017 , 2, 17028	26.6	155
97	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> , 2008 , 74, 2153-60	4.8	151
96	Expression and secretion of <i>Salmonella</i> 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> , 2004 , 279, 49804-15	5.4	132
95	Genome sequence of adherent-invasive <i>Escherichia coli</i> and comparative genomic analysis with other <i>E. coli</i> pathotypes. <i>BMC Genomics</i> , 2010 , 11, 667	4.5	126
94	Analysis of the contribution of <i>Salmonella</i> 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> , 2005 , 73, 7161-9	3.7	126
93	Overcoming mcr-1 mediated colistin resistance with colistin in combination with other antibiotics. <i>Nature Communications</i> , 2018 , 9, 458	17.4	118
92	Persistent infection with Crohn's disease-associated adherent-invasive <i>Escherichia coli</i> leads to chronic inflammation and intestinal fibrosis. <i>Nature Communications</i> , 2013 , 4, 1957	17.4	103
91	Identification of MEK- and phosphoinositide 3-kinase-dependent signalling as essential events during <i>Chlamydia pneumoniae</i> invasion of HEp2 cells. <i>Cellular Microbiology</i> , 2002 , 4, 447-60	3.9	100
90	Bacterial genetic determinants of non-O157 STEC outbreaks and hemolytic-uremic syndrome after infection. <i>Journal of Infectious Diseases</i> , 2006 , 194, 819-27	7	98
89	Muramyl Dipeptide-Based Postbiotics Mitigate Obesity-Induced Insulin Resistance via IRF4. <i>Cell Metabolism</i> , 2017 , 25, 1063-1074.e3	24.6	97
88	<i>Salmonella</i> pathogenicity island 2 is expressed prior to penetrating the intestine. <i>PLoS Pathogens</i> , 2005 , 1, e32	7.6	95
87	Evolution-guided discovery of antibiotics that inhibit peptidoglycan remodelling. <i>Nature</i> , 2020 , 578, 582-587	58.7	89
86	Negative regulation of <i>Salmonella</i> 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> , 2005 , 102, 17460-5	11.5	85

85	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> , 2008 , 4, e1000233	7.6	84
84	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. <i>Science</i> , 2019 , 363,	33.3	78
83	Crossing the line: selection and evolution of virulence traits. <i>PLoS Pathogens</i> , 2006 , 2, e42	7.6	73
82	Salmonella enterica serovar Senftenberg human clinical isolates lacking SPI-1. <i>Journal of Clinical Microbiology</i> , 2008 , 46, 1330-6	9.7	72
81	Duodenal bacterial proteolytic activity determines sensitivity to dietary antigen through protease-activated receptor-2. <i>Nature Communications</i> , 2019 , 10, 1198	17.4	69
80	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> , 1999 , 67, 2909-15	3.7	68
79	cDNA array analysis of altered gene expression in human endothelial cells in response to Chlamydia pneumoniae infection. <i>Infection and Immunity</i> , 2001 , 69, 1420-7	3.7	67
78	NleG Type 3 effectors from enterohaemorrhagic Escherichia coli are U-Box E3 ubiquitin ligases. <i>PLoS Pathogens</i> , 2010 , 6, e1000960	7.6	66
77	Identification of the regulatory logic controlling Salmonella pathoadaptation by the SsrA-SsrB two-component system. <i>PLoS Genetics</i> , 2010 , 6, e1000875	6	61
76	Characterization of Escherichia coli isolated from gut biopsies of newly diagnosed patients with inflammatory bowel disease. <i>Inflammatory Bowel Diseases</i> , 2011 , 17, 1451-63	4.5	60
75	Type VI secretion system-associated gene clusters contribute to pathogenesis of Salmonella enterica serovar Typhimurium. <i>Infection and Immunity</i> , 2012 , 80, 1996-2007	3.7	60
74	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> , 2007 , 75, 574-80	3.7	58
73	GogB is an anti-inflammatory effector that limits tissue damage during Salmonella infection through interaction with human FBXO22 and Skp1. <i>PLoS Pathogens</i> , 2012 , 8, e1002773	7.6	57
72	A general approach to the construction of structure-switching reporters from RNA aptamers. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7938-42	16.4	52
71	Salmonella phage ST64B encodes a member of the SseK/NleB effector family. <i>PLoS ONE</i> , 2011 , 6, e17824.7	3.7	52
70	Evolution of -Host Cell Interactions through a Dynamic Bacterial Genome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 428	5.9	50
69	Quantitative mass spectrometry catalogues Salmonella pathogenicity island-2 effectors and identifies their cognate host binding partners. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24023-35	5.4	49
68	Genetic and molecular analysis of GogB, a phage-encoded type III-secreted substrate in Salmonella enterica serovar typhimurium with autonomous expression from its associated phage. <i>Journal of Molecular Biology</i> , 2005 , 348, 817-30	6.5	49

67	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> , 2009 , 106, 3982-7	11.5	48
66	The evolution of virulence in non-o157 shiga toxin-producing <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2011 , 2, 90	5.7	48
65	Virulence is positively selected by transmission success between mammalian hosts. <i>Current Biology</i> , 2007 , 17, 783-8	6.3	48
64	<i>Chlamydia pneumoniae</i> and atherosclerosis: does the evidence support a causal or contributory role?. <i>FEMS Microbiology Letters</i> , 2001 , 197, 1-9	2.9	48
63	Type III secretion systems in symbiotic adaptation of pathogenic and non-pathogenic bacteria. <i>Trends in Microbiology</i> , 2009 , 17, 89-94	12.4	41
62	Repression of intracellular virulence factors in <i>Salmonella</i> by the Hha and YdgT nucleoid-associated proteins. <i>Journal of Bacteriology</i> , 2007 , 189, 3669-73	3.5	40
61	Evasive maneuvers by secreted bacterial proteins to avoid innate immune responses. <i>Current Biology</i> , 2004 , 14, R856-67	6.3	40
60	Dendritic cell discoveries provide new insight into the cellular immunobiology of DNA vaccines. <i>Immunology Letters</i> , 2001 , 78, 103-11	4.1	40
59	Zinc Chelation by a Small-Molecule Adjuvant Potentiates Meropenem Activity in Vivo against NDM-1-Producing <i>Klebsiella pneumoniae</i> . <i>ACS Infectious Diseases</i> , 2015 , 1, 533-43	5.5	38
58	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> , 2014 , 82, 3383-93	3.7	35
57	<i>Citrobacter rodentium</i> virulence in mice associates with bacterial load and the type III effector NleE. <i>Microbes and Infection</i> , 2007 , 9, 400-7	9.3	35
56	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> , 2007 , 282, 34077-84	5.4	35
55	<i>Salmonella</i> -containing vacuoles display centrifugal movement associated with cell-to-cell transfer in epithelial cells. <i>Infection and Immunity</i> , 2009 , 77, 996-1007	3.7	34
54	The transcriptional regulator SsrB is involved in a molecular switch controlling virulence lifestyles of <i>Salmonella</i> . <i>PLoS Pathogens</i> , 2017 , 13, e1006497	7.6	32
53	Structural and biochemical characterization of SrcA, a multi-cargo type III secretion chaperone in <i>Salmonella</i> required for pathogenic association with a host. <i>PLoS Pathogens</i> , 2010 , 6, e1000751	7.6	32
52	SseA is required for translocation of <i>Salmonella</i> pathogenicity island-2 effectors into host cells. <i>Microbes and Infection</i> , 2003 , 5, 561-70	9.3	31
51	Host-Specific Adaptive Diversification of Crohn's Disease-Associated Adherent-Invasive <i>Escherichia coli</i> . <i>Cell Host and Microbe</i> , 2019 , 25, 301-312.e5	23.4	29
50	Interleukin-15 and NK1.1+ cells provide innate protection against acute <i>Salmonella enterica</i> serovar Typhimurium infection in the gut and in systemic tissues. <i>Infection and Immunity</i> , 2009 , 77, 214-22	3.7	29

49	Oral infection of mice with Salmonella enterica serovar Typhimurium causes meningitis and infection of the brain. <i>BMC Infectious Diseases</i> , 2007 , 7, 65	4	29
48	Mutational analysis of Salmonella translocated effector members SifA and SopD2 reveals domains implicated in translocation, subcellular localization and function. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 2323-2343	2.9	29
47	Insertion of the bacterial type III translocon: not your average needle stick. <i>Trends in Microbiology</i> , 2005 , 13, 92-5	12.4	29
46	Transcriptional priming of Salmonella Pathogenicity Island-2 precedes cellular invasion. <i>PLoS ONE</i> , 2011 , 6, e21648	3.7	27
45	Humanized mice for Salmonella typhi infection: new tools for an old problem. <i>Virulence</i> , 2011 , 2, 248-52	4.7	27
44	Identification of the docking site between a type III secretion system ATPase and a chaperone for effector cargo. <i>Journal of Biological Chemistry</i> , 2014 , 289, 23734-44	5.4	26
43	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> , 2002 , 185, 1621-30	7	26
42	Acute Infectious Gastroenteritis Potentiates a Crohn's Disease Pathobiont to Fuel Ongoing Inflammation in the Post-Infectious Period. <i>PLoS Pathogens</i> , 2016 , 12, e1005907	7.6	26
41	Subinhibitory concentrations of tetracycline affect virulence gene expression in a multi-resistant Salmonella enterica subsp. enterica serovar Typhimurium DT104. <i>Microbes and Infection</i> , 2008 , 10, 901-7	9.3	25
40	A macrophage-based screen identifies antibacterial compounds selective for intracellular Salmonella Typhimurium. <i>Nature Communications</i> , 2019 , 10, 197	17.4	22
39	Role of RpoS in the virulence of Citrobacter rodentium. <i>Infection and Immunity</i> , 2009 , 77, 501-7	3.7	20
38	CD3 ⁺ NK1.1 ⁺ cells aid in the early induction of a Th1 response to an attaching and effacing enteric pathogen. <i>European Journal of Immunology</i> , 2013 , 43, 2638-49	6.1	19
37	Salmonella enterica serovar typhimurium exploits Toll-like receptor signaling during the host-pathogen interaction. <i>Infection and Immunity</i> , 2009 , 77, 4750-60	3.7	19
36	Characterization of DalS, an ATP-binding cassette transporter for D-alanine, and its role in pathogenesis in Salmonella enterica. <i>Journal of Biological Chemistry</i> , 2012 , 287, 15242-50	5.4	19
35	CXCL9 contributes to antimicrobial protection of the gut during citrobacter rodentium infection independent of chemokine-receptor signaling. <i>PLoS Pathogens</i> , 2015 , 11, e1004648	7.6	18
34	Salmonella evades D-amino acid oxidase to promote infection in neutrophils. <i>MBio</i> , 2014 , 5, e01886	7.8	18
33	Multiple histidines in the periplasmic domain of the Salmonella enterica sensor kinase SsrA enhance signaling in response to extracellular acidification. <i>Molecular Microbiology</i> , 2015 , 95, 678-91	4.1	17
32	A polymicrobial view of disease potential in Crohn's-associated adherent-invasive E. coli. <i>Gut Microbes</i> , 2018 , 9, 166-174	8.8	17

31	RpoE fine tunes expression of a subset of SsrB-regulated virulence factors in Salmonella enterica serovar Typhimurium. <i>BMC Microbiology</i> , 2009 , 9, 45	4.5	16
30	Targeting Two-Component Systems Uncovers a Small-Molecule Inhibitor of Salmonella Virulence. <i>Cell Chemical Biology</i> , 2020 , 27, 793-805.e7	8.2	15
29	Novel repressor of Escherichia coli O157:H7 motility encoded in the putative fimbrial cluster OI-1. <i>Journal of Bacteriology</i> , 2012 , 194, 5343-52	3.5	15
28	Mapping and regulation of genes within Salmonella pathogenicity island 12 that contribute to in vivo fitness of Salmonella enterica Serovar Typhimurium. <i>Infection and Immunity</i> , 2013 , 81, 2394-404	3.7	14
27	The Unique Lifestyle of Crohn's Disease-Associated Adherent-Invasive Escherichia coli. <i>Journal of Molecular Biology</i> , 2019 , 431, 2970-2981	6.5	13
26	A novel inhibitor of Chlamydomonas reinhardtii protein kinase D (PknD) inhibits phosphorylation of CdsD and suppresses bacterial replication. <i>BMC Microbiology</i> , 2009 , 9, 218	4.5	13
25	Regulatory Evolution Drives Evasion of Host Inflammasomes by Salmonella Typhimurium. <i>Cell Reports</i> , 2018 , 25, 825-832.e5	10.6	13
24	Convergence of External Crohn's Disease Risk Factors on Intestinal Bacteria. <i>Frontiers in Immunology</i> , 2015 , 6, 558	8.4	12
23	Expression and secretion hierarchy in the nonflagellar type III secretion system. <i>Future Microbiology</i> , 2011 , 6, 193-202	2.9	11
22	Mimicking the human environment in mice reveals that inhibiting biotin biosynthesis is effective against antibiotic-resistant pathogens. <i>Nature Microbiology</i> , 2020 , 5, 93-101	26.6	11
21	Functional diversification of the NleG effector family in enterohemorrhagic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10004-10009	11.5	11
20	Molecular basis for CesT recognition of type III secretion effectors in enteropathogenic Escherichia coli. <i>PLoS Pathogens</i> , 2018 , 14, e1007224	7.6	10
19	A Highly Effective Component Vaccine against Nontyphoidal Salmonella enterica Infections. <i>MBio</i> , 2015 , 6, e01421-15	7.8	10
18	Antibiotics Potentiate Adherent-Invasive E. coli Infection and Expansion. <i>Inflammatory Bowel Diseases</i> , 2019 , 25, 711-721	4.5	10
17	The Role of the Host in Driving Phenotypic Heterogeneity in Salmonella. <i>Trends in Microbiology</i> , 2019 , 27, 508-523	12.4	9
16	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> , 2021 , 12, 2032	17.4	8
15	Active modification of host inflammation by Salmonella. <i>Gut Microbes</i> , 2013 , 4, 140-5	8.8	6
14	Interpreting the host-pathogen dialogue through microarrays. <i>Advances in Applied Microbiology</i> , 2004 , 54, 291-331	4.9	6

13	The non-motile phenotype of Salmonella hha ydgT mutants is mediated through PefI-SrgD. <i>BMC Microbiology</i> , 2011 , 11, 141	4.5	5
12	Psychological stress impairs IL22-driven protective gut mucosal immunity against colonising pathobionts. <i>Nature Communications</i> , 2021 , 12, 6664	17.4	5
11	Genetic and Chemical Screening in Human Blood Serum Reveals Unique Antibacterial Targets and Compounds against <i>Klebsiella pneumoniae</i> . <i>Cell Reports</i> , 2020 , 32, 107927	10.6	5
10	The SseC translocon component in <i>Salmonella enterica</i> serovar Typhimurium is chaperoned by SscA. <i>BMC Microbiology</i> , 2013 , 13, 221	4.5	4
9	Complete Genome Sequence of <i>Citrobacter rodentium</i> Strain DBS100. <i>Microbiology Resource Announcements</i> , 2019 , 8,	1.3	3
8	Regulatory evolution at the host-pathogen interface. <i>Canadian Journal of Microbiology</i> , 2013 , 59, 365-7	3.2	3
7	Emerging and divergent roles of pyrophosphorylated nucleotides in bacterial physiology and pathogenesis. <i>PLoS Pathogens</i> , 2021 , 17, e1009532	7.6	2
6	Bacterial evolution: Making a host-adapted bacterium. <i>Nature Microbiology</i> , 2016 , 1, 16010	26.6	1
5	(p)ppGpp-Dependent Regulation of the Nucleotide Hydrolase PpnN Confers Complement Resistance in <i>Salmonella enterica</i> Serovar Typhimurium. <i>Infection and Immunity</i> , 2021 , 89,	3.7	1
4	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> , 2021 , 321, E338-E350	6	1
3	A Fresh Look at the Type III Secretion System: Two-Step Model of Effector Translocation in Pathogenic Bacteria. <i>Frontiers in Microbiology</i> , 2011 , 2, 113	5.7	0
2	Emergence of invasive <i>Salmonella</i> in Africa. <i>Nature Microbiology</i> , 2021 , 6, 273-274	26.6	0
1	High-Throughput Chemical Screening for Inhibitors of Pathogenicity Island 2. <i>STAR Protocols</i> , 2020 , 1, 100057	1.4	