

David G E Smith

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.

98
papers

3,417
citations

31
h-index

55
g-index

102
ext. papers

3,999
ext. citations

4.4
avg, IF

4.56
L-index

#	Paper	IF	Citations
98	Lymphoid follicle-dense mucosa at the terminal rectum is the principal site of colonization of enterohemorrhagic <i>Escherichia coli</i> O157:H7 in the bovine host. <i>Infection and Immunity</i> , 2003 , 71, 1505-1527	3.7	425
97	Host-response patterns of intramammary infections in dairy cows. <i>Veterinary Immunology and Immunopathology</i> , 2011 , 144, 270-89	2	200
96	Rectal carriage of enterohemorrhagic <i>Escherichia coli</i> O157 in slaughtered cattle. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 93-7	4.8	147
95	<i>Escherichia coli</i> O157 : H7 forms attaching and effacing lesions at the terminal rectum of cattle and colonization requires the LEE4 operon. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 2773-2781	2.9	122
94	An investigation of the expression and adhesin function of H7 flagella in the interaction of <i>Escherichia coli</i> O157 : H7 with bovine intestinal epithelium. <i>Cellular Microbiology</i> , 2009 , 11, 121-37	3.9	109
93	<i>Campylobacter jejuni</i> outer membrane vesicles play an important role in bacterial interactions with human intestinal epithelial cells. <i>Infection and Immunity</i> , 2012 , 80, 4089-98	3.7	103
92	Verotoxin 1 binding to intestinal crypt epithelial cells results in localization to lysosomes and abrogation of toxicity. <i>Cellular Microbiology</i> , 2003 , 5, 85-97	3.9	88
91	Analysis of fimbrial gene clusters and their expression in enterohaemorrhagic <i>Escherichia coli</i> O157:H7. <i>Environmental Microbiology</i> , 2006 , 8, 1033-47	5.2	82
90	Differential endometrial cell sensitivity to a cholesterol-dependent cytolysin links <i>Trueperella pyogenes</i> to uterine disease in cattle. <i>Biology of Reproduction</i> , 2014 , 90, 54	3.9	76
89	Immunization of cattle with a combination of purified intimin-531, EspA and Tir significantly reduces shedding of <i>Escherichia coli</i> O157:H7 following oral challenge. <i>Vaccine</i> , 2010 , 28, 1422-8	4.1	76
88	Heterogeneous surface expression of EspA translocon filaments by <i>Escherichia coli</i> O157:H7 is controlled at the posttranscriptional level. <i>Infection and Immunity</i> , 2003 , 71, 5900-9	3.7	75
87	<i>Escherichia coli</i> O157:H7 colonization in cattle following systemic and mucosal immunization with purified H7 flagellin. <i>Infection and Immunity</i> , 2008 , 76, 2594-602	3.7	72
86	Differences in levels of secreted locus of enterocyte effacement proteins between human disease-associated and bovine <i>Escherichia coli</i> O157. <i>Infection and Immunity</i> , 2001 , 69, 5107-14	3.7	69
85	Cloning, expression, and characterization of fimbrial operon F9 from enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2006 , 74, 2233-44	3.7	68
84	EspP, a Type V-secreted serine protease of enterohaemorrhagic <i>Escherichia coli</i> O157:H7, influences intestinal colonization of calves and adherence to bovine primary intestinal epithelial cells. <i>FEMS Microbiology Letters</i> , 2007 , 271, 258-64	2.9	66
83	Ultra-fast tandem mass spectrometry scanning combined with monolithic column liquid chromatography increases throughput in proteomic analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 2074-80	2.2	65
82	Direct and indirect transcriptional activation of virulence genes by an AraC-like protein, PerA from enteropathogenic <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2004 , 54, 1117-33	4.1	62

81	Phenotypic and functional heterogeneity of bovine blood monocytes. <i>PLoS ONE</i> , 2013 , 8, e71502	3.7	54
80	The LEE1 promoters from both enteropathogenic and enterohemorrhagic <i>Escherichia coli</i> can be activated by PerC-like proteins from either organism. <i>Journal of Bacteriology</i> , 2005 , 187, 458-72	3.5	53
79	Genomic and surface proteomic analysis of the canine pathogen <i>Staphylococcus pseudintermedius</i> reveals proteins that mediate adherence to the extracellular matrix. <i>Infection and Immunity</i> , 2011 , 79, 3074-86	3.7	50
78	Expression of receptors for verotoxin 1 from <i>Escherichia coli</i> O157 on bovine intestinal epithelium. <i>Journal of Medical Microbiology</i> , 2002 , 51, 143-149	3.2	50
77	Co-ordinate single-cell expression of LEE4- and LEE5-encoded proteins of <i>Escherichia coli</i> O157:H7. <i>Molecular Microbiology</i> , 2004 , 54, 337-52	4.1	49
76	Effects of sub-MIC concentrations of antibiotics on growth of and toxin production by <i>Clostridium difficile</i> . <i>Journal of Medical Microbiology</i> , 2003 , 52, 1033-1038	3.2	46
75	Influence of carbon dioxide on the surface characteristics and adherence potential of coagulase-negative staphylococci. <i>Journal of Clinical Microbiology</i> , 1990 , 28, 1813-7	9.7	43
74	Analysis of the expression, regulation and export of NleA-E in <i>Escherichia coli</i> O157 : H7. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 1350-1360	2.9	42
73	Gamma interferon influences intestinal epithelial hyperplasia caused by <i>Lawsonia intracellularis</i> infection in mice. <i>Infection and Immunity</i> , 2000 , 68, 6737-43	3.7	40
72	Effects of carbon dioxide and sub-lethal levels of antibiotics on adherence of coagulase-negative staphylococci to polystyrene and silicone rubber. <i>Journal of Antimicrobial Chemotherapy</i> , 1991 , 27, 577-87 ^{5.1}	5.1	40
71	Phylogenomic exploration of the relationships between strains of <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>BMC Genomics</i> , 2016 , 17, 79	4.5	38
70	Changes in sensitivity patterns to selected antibiotics in <i>Clostridium difficile</i> in geriatric in-patients over an 18-month period. <i>Journal of Medical Microbiology</i> , 2003 , 52, 259-263	3.2	37
69	A Highly Conserved Bacterial D-Serine Uptake System Links Host Metabolism and Virulence. <i>PLoS Pathogens</i> , 2016 , 12, e1005359	7.6	35
68	Local immunization impacts the response of dairy cows to <i>Escherichia coli</i> mastitis. <i>Scientific Reports</i> , 2017 , 7, 3441	4.9	33
67	Characterization of cell envelope proteins of <i>Staphylococcus epidermidis</i> cultured in human peritoneal dialysate. <i>Infection and Immunity</i> , 1991 , 59, 617-24	3.7	31
66	<i>Campylobacter jejuni</i> 81-176 forms distinct microcolonies on in vitro-infected human small intestinal tissue prior to biofilm formation. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 3079-3084	2.9	29
65	Influence of carbon dioxide on growth and antibiotic susceptibility of coagulase-negative staphylococci cultured in human peritoneal dialysate. <i>Journal of Clinical Microbiology</i> , 1990 , 28, 2183-6	9.7	29
64	The host metabolite D-serine contributes to bacterial niche specificity through gene selection. <i>ISME Journal</i> , 2015 , 9, 1039-51	11.9	28

63	Genome-wide fitness analyses of the foodborne pathogen <i>Campylobacter jejuni</i> in in vitro and in vivo models. <i>Scientific Reports</i> , 2017 , 7, 1251	4.9	27
62	Peripheral blood leukocytes of cows with subclinical endometritis show an altered cellular composition and gene expression. <i>Theriogenology</i> , 2014 , 81, 906-17	2.8	27
61	Genomic content typifying a prevalent clade of bovine mastitis-associated <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2016 , 6, 30115	4.9	26
60	LsaA, an antigen involved in cell attachment and invasion, is expressed by <i>Lawsonia intracellularis</i> during infection in vitro and in vivo. <i>Infection and Immunity</i> , 2002 , 70, 2899-907	3.7	26
59	Postgenomics Characterization of an Essential Genetic Determinant of Mammary Pathogenic. <i>MBio</i> , 2018 , 9,	7.8	25
58	Variation in the expression of cell envelope proteins of coagulase-negative staphylococci cultured under iron-restricted conditions in human peritoneal dialysate. <i>Journal of General Microbiology</i> , 1991 , 137, 2561-70		25
57	Propionic Acid Promotes the Virulent Phenotype of Crohn's Disease-Associated Adherent-Invasive <i>Escherichia coli</i> . <i>Cell Reports</i> , 2020 , 30, 2297-2305.e5	10.6	24
56	In vitro antagonistic activities of <i>Lactobacillus</i> spp. against <i>Brachyspira hyodysenteriae</i> and <i>Brachyspira pilosicoli</i> . <i>Veterinary Microbiology</i> , 2009 , 138, 184-90	3.3	23
55	Host-associated niche metabolism controls enteric infection through fine-tuning the regulation of type 3 secretion. <i>Nature Communications</i> , 2018 , 9, 4187	17.4	23
54	Shedding of <i>Escherichia coli</i> O157:H7 in calves is reduced by prior colonization with the homologous strain. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3765-7	4.8	22
53	Optimizing the Protection of Cattle against <i>Escherichia coli</i> O157:H7 Colonization through Immunization with Different Combinations of H7 Flagellin, Tir, Intimin-531 or EspA. <i>PLoS ONE</i> , 2015 , 10, e0128391	3.7	21
52	IgA and IgG antibody responses following systemic immunization of cattle with native H7 flagellin differ in epitope recognition and capacity to neutralise TLR5 signalling. <i>Vaccine</i> , 2010 , 28, 1412-21	4.1	20
51	Characterization of the in vitro core surface proteome of <i>Mycoplasma mycoides</i> subsp. <i>mycoides</i> , the causative agent of contagious bovine pleuropneumonia. <i>Veterinary Microbiology</i> , 2014 , 168, 116-23	3.3	18
50	The bile salt sodium taurocholate induces <i>Campylobacter jejuni</i> outer membrane vesicle production and increases OMV-associated proteolytic activity. <i>Cellular Microbiology</i> , 2018 , 20, e12814	3.9	18
49	Evidence of land-sea transfer of the zoonotic pathogen <i>Campylobacter</i> to a wildlife marine sentinel species. <i>Molecular Ecology</i> , 2015 , 24, 208-21	5.7	16
48	Mevalonate Biosynthesis Intermediates Are Key Regulators of Innate Immunity in Bovine Endometritis. <i>Journal of Immunology</i> , 2016 , 196, 823-31	5.3	16
47	Expression by <i>Lawsonia intracellularis</i> of type III secretion system components during infection. <i>Veterinary Microbiology</i> , 2009 , 139, 298-303	3.3	16
46	Consequences of EHEC colonisation in humans and cattle. <i>International Journal of Medical Microbiology</i> , 2002 , 292, 169-83	3.7	16

45	Functional characterisation of bovine TLR5 indicates species-specific recognition of flagellin. <i>Veterinary Immunology and Immunopathology</i> , 2014 , 157, 197-205	2	15
44	Staphylococcus aureus Phenol-Soluble Modulins Impair Interleukin Expression in Bovine Mammary Epithelial Cells. <i>Infection and Immunity</i> , 2016 , 84, 1682-1692	3.7	15
43	Functional analysis of bovine TLR5 and association with IgA responses of cattle following systemic immunisation with H7 flagella. <i>Veterinary Research</i> , 2015 , 46, 9	3.8	14
42	Superoxide dismutase SodB is a protective antigen against Campylobacter jejuni colonisation in chickens. <i>Vaccine</i> , 2015 , 33, 6206-11	4.1	14
41	Processing of Chlamydia abortus polymorphic membrane protein 18D during the chlamydial developmental cycle. <i>PLoS ONE</i> , 2012 , 7, e49190	3.7	14
40	MALDIrppa: quality control and robust analysis for mass spectrometry data. <i>Bioinformatics</i> , 2018 , 34, 522-523	7.2	13
39	Host species adaptation of TLR5 signalling and flagellin recognition. <i>Scientific Reports</i> , 2017 , 7, 17677	4.9	13
38	Draft Genome Sequence of Escherichia coli MS499, Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014 , 2,		13
37	Proteomic analysis of Lawsonia intracellularis reveals expression of outer membrane proteins during infection. <i>Veterinary Microbiology</i> , 2014 , 174, 448-455	3.3	13
36	Complete genome sequence of Corynebacterium pseudotuberculosis strain 1/06-A, isolated from a horse in North America. <i>Journal of Bacteriology</i> , 2012 , 194, 4476	3.5	13
35	Unexpected differential metabolic responses of Campylobacter jejuni to the abundant presence of glutamate and fucose. <i>Metabolomics</i> , 2018 , 14, 144	4.7	13
34	Genome Sequence of Lawsonia intracellularis Strain N343, Isolated from a Sow with Hemorrhagic Proliferative Enteropathy. <i>Genome Announcements</i> , 2013 , 1,		12
33	Genome sequence of the Chlamydia abortus variant strain LLG. <i>Journal of Bacteriology</i> , 2011 , 193, 4276-7	3.5	12
32	Complete genome sequences of Corynebacterium pseudotuberculosis strains 3/99-5 and 42/02-A, isolated from sheep in Scotland and Australia, respectively. <i>Journal of Bacteriology</i> , 2012 , 194, 4736-7	3.5	12
31	Simple methods for measurement of bovine mucosal antibody responses in vivo. <i>Veterinary Immunology and Immunopathology</i> , 2007 , 118, 160-7	2	12
30	A population genomics approach to exploiting the accessory VesistomeVof. <i>Microbial Genomics</i> , 2017 , 3, e000108	4.4	12
29	Genomic characterisation of an endometrial pathogenic Escherichia coli strain reveals the acquisition of genetic elements associated with extra-intestinal pathogenicity. <i>BMC Genomics</i> , 2014 , 15, 1075	4.5	11
28	Expression patterns of five polymorphic membrane proteins during the Chlamydia abortus developmental cycle. <i>Veterinary Microbiology</i> , 2012 , 160, 525-9	3.3	11

27	Characterisation of proteins extracted from the surface of Salmonella Typhimurium grown under SPI-2-inducing conditions by LC-ESI/MS/MS sequencing. <i>Proteomics</i> , 2011 , 11, 361-70	4.8	11
26	Novel Single Nucleotide Polymorphism-Based Assay for Genotyping Mycobacterium avium subsp. paratuberculosis. <i>Journal of Clinical Microbiology</i> , 2016 , 54, 556-64	9.7	10
25	Subclinical endometritis in dairy cattle is associated with distinct mRNA expression patterns in blood and endometrium. <i>PLoS ONE</i> , 2019 , 14, e0220244	3.7	10
24	Draft Genome Sequence of Trueperella pyogenes, Isolated from the Infected Uterus of a Postpartum Cow with Metritis. <i>Genome Announcements</i> , 2014 , 2,		10
23	Comparative molecular analysis of ovine and bovine Streptococcus uberis isolates. <i>Journal of Dairy Science</i> , 2013 , 96, 962-70	4	10
22	A novel Lawsonia intracellularis autotransporter protein is a prominent antigen. <i>Vaccine Journal</i> , 2011 , 18, 1282-7		10
21	Analysis of Campylobacter jejuni infection in the gnotobiotic piglet and genome-wide identification of bacterial factors required for infection. <i>Scientific Reports</i> , 2017 , 7, 44283	4.9	9
20	Substantial Extracellular Metabolic Differences Found Between Phylogenetically Closely Related Probiotic and Pathogenic Strains of. <i>Frontiers in Microbiology</i> , 2019 , 10, 252	5.7	8
19	Immunomodulation of Host Chitinase 3-Like 1 During a Mammary Pathogenic Infection. <i>Frontiers in Immunology</i> , 2018 , 9, 1143	8.4	8
18	Genetic variability of Chlamydophila abortus strains assessed by PCR-RFLP analysis of polymorphic membrane protein-encoding genes. <i>Veterinary Microbiology</i> , 2011 , 151, 284-90	3.3	8
17	Immunomagnetic separation of the intestinal spirochaetes Brachyspira pilosicoli and Brachyspira hyodysenteriae from porcine faeces. <i>Journal of Medical Microbiology</i> , 2004 , 53, 301-307	3.2	8
16	Risk factors associated with Lawsonia intracellularis in English pig farms. <i>Veterinary Journal</i> , 2013 , 197, 707-11	2.5	7
15	Phosphorylation of the epidermal growth factor receptor (EGFR) is essential for interleukin-8 release from intestinal epithelial cells in response to challenge with Escherichia coli O157 : H7 flagellin. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2339-2347	2.9	6
14	Rapid and robust analytical protocol for E. coli STEC bacteria subspecies differentiation using whole cell MALDI mass spectrometry. <i>Talanta</i> , 2018 , 182, 164-170	6.2	5
13	Proteomic and genomic analysis reveals novel outer membrane proteins and potential heterogeneity. <i>EuPA Open Proteomics</i> , 2014 , 4, 184-194	0.1	5
12	Performance of five different electrospray ionisation sources in conjunction with rapid monolithic column liquid chromatography and fast MS/MS scanning. <i>Proteomics</i> , 2009 , 9, 1720-6	4.8	5
11	Antimicrobial Properties of Gallium(III)- and Iron(III)-Loaded Polysaccharides Affecting the Growth of , and , In Vitro.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 7589-7597	4.1	5
10	Variant O89 O-Antigen of Is Associated With Group 1 Capsule Loci and Multidrug Resistance. <i>Frontiers in Microbiology</i> , 2018 , 9, 2026	5.7	5

9	Antibacterial Activities of Ga(III) against Are Substantially Impacted by Fe(III) Uptake Systems and Multidrug Resistance in Combination with Oxygen Levels. <i>ACS Infectious Diseases</i> , 2020 , 6, 2959-2969	5.5	4
8	Verotoxin-2 activates mitogen-activated protein kinases in bovine adherent peripheral blood mononuclear cells. <i>Journal of Comparative Pathology</i> , 2012 , 147, 20-3	1	3
7	Draft Genome Sequence of Isolate Staphylococcus aureus LHSKBclinical, Isolated from an Infected Hip. <i>Genome Announcements</i> , 2015 , 3,		2
6	Targeted allele replacement mutagenesis of <i>Corynebacterium pseudotuberculosis</i> . <i>Applied and Environmental Microbiology</i> , 2011 , 77, 3532-5	4.8	2
5	Differences in levels of secreted locus of enterocyte effacement proteins between human disease-associated and bovine <i>Escherichia coli</i> O157. <i>Infection and Immunity</i> , 2005 , 73, 2571	3.7	2
4	Plasmid Mediated Colistin-Resistance in Clinical Extraintestinal Strains Isolated in Poland.. <i>Frontiers in Microbiology</i> , 2021 , 12, 547020	5.7	2
3	Genome-Wide Fitness Analyses of the Foodborne Pathogen <i>Campylobacter jejuni</i> in In Vitro and In Vivo Models		1
2	Draft Genome Sequences of Enterohemorrhagic <i>Escherichia coli</i> Encoding Extended-Spectrum Beta-Lactamases. <i>Genome Announcements</i> , 2016 , 4,		1
1	Application of Proteomics to Elucidate Bacterium-Host Interactions	319-348	