

Vanessa Sperandio

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.

150 papers	11,260 citations	51 h-index	105 g-index
162 ext. papers	13,062 ext. citations	9.2 avg, IF	6.78 L-index

#	Paper	IF	Citations
150	IgG Binds Serine Protease EspP and Protects Mice From O157:H7 Infection.. <i>Frontiers in Immunology</i> , 2022 , 13, 807959	8.4	
149	The Canonical Long-Chain Fatty Acid Sensing Machinery Processes Arachidonic Acid To Inhibit Virulence in Enterohemorrhagic Escherichia coli. <i>MBio</i> , 2021 , 12,	7.8	6
148	l-Arginine sensing regulates virulence gene expression and disease progression in enteric pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12387-12393	11.5	10
147	EspFu-Mediated Actin Assembly Enhances Enteropathogenic Adherence and Activates Host Cell Inflammatory Signaling Pathways. <i>MBio</i> , 2020 , 11,	7.8	8
146	The Serotonin Neurotransmitter Modulates Virulence of Enteric Pathogens. <i>Cell Host and Microbe</i> , 2020 , 28, 41-53.e8	23.4	33
145	Characterization of Autoinducer-3 Structure and Biosynthesis in. <i>ACS Central Science</i> , 2020 , 6, 197-206	16.8	42
144	Genomic Properties and Temporal Analysis of the Interaction of an Invasive With Epithelial Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 571088	5.9	1
143	Diet-derived galacturonic acid regulates virulence and intestinal colonization in enterohaemorrhagic Escherichia coli and Citrobacter rodentium. <i>Nature Microbiology</i> , 2020 , 5, 368-378	26.6	18
142	Endocannabinoids Inhibit the Induction of Virulence in Enteric Pathogens. <i>Cell</i> , 2020 , 183, 650-665.e15	56.2	12
141	Bacterial signaling as an antimicrobial target. <i>Current Opinion in Microbiology</i> , 2020 , 57, 78-86	7.9	12
140	Indole Signaling at the Host-Microbiota-Pathogen Interface. <i>MBio</i> , 2019 , 10,	7.8	62
139	Quorum Sensing and the Gut Microbiome 2019 , 151-169		4
138	Taming the Beast: Interplay between Gut Small Molecules and Enteric Pathogens. <i>Infection and Immunity</i> , 2019 , 87,	3.7	9
137	Enterococcus faecalis Enhances Expression and Activity of the Enterohemorrhagic Escherichia coli Type III Secretion System. <i>MBio</i> , 2019 , 10,	7.8	2
136	Complete Genome Sequence of Escherichia albertii Strain 1551-2, a Potential Extracellular and Intracellular Pathogen. <i>Genome Announcements</i> , 2018 , 6,		5
135	The QseG Lipoprotein Impacts the Virulence of Enterohemorrhagic Escherichia coli and Citrobacter rodentium and Regulates Flagellar Phase Variation in Salmonella enterica Serovar Typhimurium. <i>Infection and Immunity</i> , 2018 , 86,	3.7	6
134	Enterohemorrhagic Escherichia coli outwits hosts through sensing small molecules. <i>Current Opinion in Microbiology</i> , 2018 , 41, 83-88	7.9	21

133	Bacteriophage Transcription Factor Cro Regulates Virulence Gene Expression in Enterohemorrhagic Escherichia coli. <i>Cell Host and Microbe</i> , 2018 , 23, 607-617.e6	23.4	22
132	Microbiota and Pathogen Proteases Modulate Type III Secretion Activity in Enterohemorrhagic Escherichia coli. <i>MBio</i> , 2018 , 9,	7.8	14
131	Redox, amino acid, and fatty acid metabolism intersect with bacterial virulence in the gut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E10712-E10719.	11.5	20
130	Pathogens' adaptation to the human host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9342-9343	11.5	11
129	Genetic and Mechanistic Analyses of the Periplasmic Domain of the Enterohemorrhagic Escherichia coli QseC Histidine Sensor Kinase. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	15
128	Take Your Pick: Vitamins and Microbiota Facilitate Pathogen Clearance. <i>Cell Host and Microbe</i> , 2017 , 21, 130-131	23.4	3
127	Bacterial Chat: Intestinal Metabolites and Signals in Host-Microbiota-Pathogen Interactions. <i>Infection and Immunity</i> , 2017 , 85,	3.7	50
126	Escherichia albertii, a novel human enteropathogen, colonizes rat enterocytes and translocates to extra-intestinal sites. <i>PLoS ONE</i> , 2017 , 12, e0171385	3.7	16
125	Catabolite and Oxygen Regulation of Enterohemorrhagic Escherichia coli Virulence. <i>MBio</i> , 2016 , 7,	7.8	33
124	Bacterial Adrenergic Sensors Regulate Virulence of Enteric Pathogens in the Gut. <i>MBio</i> , 2016 , 7,	7.8	60
123	What a Dinner Party! Mechanisms and Functions of Interkingdom Signaling in Host-Pathogen Associations. <i>MBio</i> , 2016 , 7, e01748	7.8	68
122	The Epinephrine/Norepinephrine/Autoinducer-3 Interkingdom Signaling System in Escherichia coli O157:H7. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 874, 247-61	3.6	26
121	Interactions between the microbiota and pathogenic bacteria in the gut. <i>Nature</i> , 2016 , 535, 85-93	50.4	627
120	In vivo influence of in vitro up-regulated genes in the virulence of an APEC strain associated with swollen head syndrome. <i>Avian Pathology</i> , 2016 , 45, 94-105	2.4	5
119	Bacterial Reductionism: Host Thiols Enhance Virulence. <i>Cell Host and Microbe</i> , 2015 , 18, 7-8	23.4	1
118	The efficacy of immediate versus delayed antibiotic administration on bacterial growth and biofilm production of selected strains of uropathogenic Escherichia coli and Pseudomonas aeruginosa. <i>International Braz J Urol: Official Journal of the Brazilian Society of Urology</i> , 2015 , 41, 67-77	2	7
117	Frenemies: Signaling and Nutritional Integration in Pathogen-Microbiota-Host Interactions. <i>Cell Host and Microbe</i> , 2015 , 18, 275-84	23.4	57
116	Structural and mechanistic roles of novel chemical ligands on the SdiA quorum-sensing transcription regulator. <i>MBio</i> , 2015 , 6,	7.8	56

115	Influence of the major nitrite transporter NirC on the virulence of a Swollen Head Syndrome avian pathogenic <i>E. coli</i> (APEC) strain. <i>Veterinary Microbiology</i> , 2015 , 175, 123-31	3.3	15
114	Enteric Pathogens Exploit the Microbiota-generated Nutritional Environment of the Gut. <i>Microbiology Spectrum</i> , 2015 , 3,	8.9	24
113	Global analysis of posttranscriptional regulation by GlmY and GlmZ in enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2015 , 83, 1286-95	3.7	44
112	Recurrent urinary tract infections in healthy and nonpregnant women. <i>Urological Science</i> , 2014 , 25, 1-8	0.3	45
111	Cell-to-Cell Signaling in <i>Escherichia coli</i> and <i>Salmonella</i> . <i>EcoSal Plus</i> , 2014 , 6,	7.7	24
110	The Interplay between the Microbiota and Enterohemorrhagic <i>Escherichia coli</i> . <i>Microbiology Spectrum</i> , 2014 , 2,	8.9	15
109	QseC inhibitors as an antivirulence approach for Gram-negative pathogens. <i>MBio</i> , 2014 , 5, e02165	7.8	85
108	Posttranscriptional control of microbe-induced rearrangement of host cell actin. <i>MBio</i> , 2014 , 5, e01025-13	1.3	43
107	The gut commensal <i>Bacteroides thetaiotaomicron</i> exacerbates enteric infection through modification of the metabolic landscape. <i>Cell Host and Microbe</i> , 2014 , 16, 759-69	23.4	171
106	Nutrient and chemical sensing by intestinal pathogens. <i>Microbes and Infection</i> , 2013 , 15, 759-64	9.3	15
105	Interference with Bacterial Cell-to-Cell Chemical Signaling in Development of New Anti-Infectives 2013 , 241-261		
104	Restrictive Streptomycin Resistance Mutations Decrease the Formation of Attaching and Effacing Lesions in <i>Escherichia coli</i> O157:H7 Strains. <i>Antimicrobial Agents and Chemotherapy</i> , 2013 , 57, 4260-4266	5.9	4
103	The interacting Cra and KdpE regulators are involved in the expression of multiple virulence factors in enterohemorrhagic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2013 , 195, 2499-508	3.5	31
102	The acyl-homoserine lactone synthase YenI from <i>Yersinia enterocolitica</i> modulates virulence gene expression in enterohemorrhagic <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2013 , 81, 4192-9	3.7	7
101	Virulence and stress-related periplasmic protein (VisP) in bacterial/host associations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1470-5	11.5	42
100	SdiA aids enterohemorrhagic <i>Escherichia coli</i> carriage by cattle fed a forage or grain diet. <i>Infection and Immunity</i> , 2013 , 81, 3472-8	3.7	17
99	Fucose sensing regulates bacterial intestinal colonization. <i>Nature</i> , 2012 , 492, 113-7	50.4	312
98	Enterohemorrhagic <i>Escherichia coli</i> virulence regulation by two bacterial adrenergic kinases, QseC and QseE. <i>Infection and Immunity</i> , 2012 , 80, 688-703	3.7	49

97	Virulence meets metabolism: Cra and KdpE gene regulation in enterohemorrhagic Escherichia coli. <i>MBio</i> , 2012 , 3, e00280-12	7.8	94
96	Shiga toxin in enterohemorrhagic E.coli: regulation and novel anti-virulence strategies. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012 , 2, 81	5.9	90
95	Enterohemorrhagic E. coli (EHEC) pathogenesis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012 , 2, 90	5.9	173
94	Microbiology. Virulence or competition?. <i>Science</i> , 2012 , 336, 1238-9	33.3	8
93	Interplay between the QseC and QseE bacterial adrenergic sensor kinases in Salmonella enterica serovar Typhimurium pathogenesis. <i>Infection and Immunity</i> , 2012 , 80, 4344-53	3.7	42
92	Ethanolamine controls expression of genes encoding components involved in interkingdom signaling and virulence in enterohemorrhagic Escherichia coli O157:H7. <i>MBio</i> , 2012 , 3,	7.8	112
91	Atypical enteropathogenic Escherichia coli that contains functional locus of enterocyte effacement genes can be attaching-and-effacing negative in cultured epithelial cells. <i>Infection and Immunity</i> , 2011 , 79, 1833-41	3.7	16
90	Characterization of IcmF of the type VI secretion system in an avian pathogenic Escherichia coli (APEC) strain. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 2954-2962	2.9	58
89	Hfq virulence regulation in enterohemorrhagic Escherichia coli O157:H7 strain 86-24. <i>Journal of Bacteriology</i> , 2011 , 193, 6843-51	3.5	65
88	The LysR-type regulator QseA regulates both characterized and putative virulence genes in enterohaemorrhagic Escherichia coli O157:H7. <i>Molecular Microbiology</i> , 2010 , 76, 1306-21	4.1	30
87	Anti-virulence strategies to combat bacteria-mediated disease. <i>Nature Reviews Drug Discovery</i> , 2010 , 9, 117-28	64.1	854
86	The LysR-type transcriptional regulator QseD alters type three secretion in enterohemorrhagic Escherichia coli and motility in K-12 Escherichia coli. <i>Journal of Bacteriology</i> , 2010 , 192, 3699-712	3.5	26
85	A transcriptome study of the QseEF two-component system and the QseG membrane protein in enterohaemorrhagic Escherichia coli O157 : H7. <i>Microbiology (United Kingdom)</i> , 2010 , 156, 1167-1175	2.9	24
84	SdiA bridges chemical signaling between Salmonella enterica serovar Typhimurium and Yersinia enterocolitica in mice. <i>Journal of Bacteriology</i> , 2010 , 192, 21-2	3.5	7
83	Outbreak caused by cad-negative Shiga toxin-producing Escherichia coli O111, Oklahoma. <i>Foodborne Pathogens and Disease</i> , 2010 , 7, 107-9	3.8	14
82	The type VI secretion system plays a role in type 1 fimbria expression and pathogenesis of an avian pathogenic Escherichia coli strain. <i>Infection and Immunity</i> , 2010 , 78, 4990-8	3.7	75
81	SdiA sensing of acyl-homoserine lactones by enterohemorrhagic E. coli (EHEC) serotype O157:H7 in the bovine rumen. <i>Gut Microbes</i> , 2010 , 1, 432-5	8.8	38
80	Chemical sensing in mammalian host-bacterial commensal associations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9831-6	11.5	100

79	QseC mediates Salmonella enterica serovar typhimurium virulence in vitro and in vivo. <i>Infection and Immunity</i> , 2010 , 78, 914-26	3.7	119
78	The Epinephrine/Norepinephrine/Autoinducer-3 Interkingdom Signaling System in Escherichia coli O157:H7 2010 , 213-227		5
77	An alternative polyamine biosynthetic pathway is widespread in bacteria and essential for biofilm formation in Vibrio cholerae. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9899-907	5.4	128
76	The two-component system QseEF and the membrane protein QseG link adrenergic and stress sensing to bacterial pathogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5889-94	11.5	112
75	The QseC adrenergic signaling cascade in Enterohemorrhagic E. coli (EHEC). <i>PLoS Pathogens</i> , 2009 , 5, e1000553	7.6	150
74	Jamming bacterial communication: new approaches for the treatment of infectious diseases. <i>EMBO Molecular Medicine</i> , 2009 , 1, 201-10	12	157
73	Cell-to-cell signalling during pathogenesis. <i>Cellular Microbiology</i> , 2009 , 11, 363-9	3.9	101
72	Inter-kingdom signaling: chemical language between bacteria and host. <i>Current Opinion in Microbiology</i> , 2009 , 12, 192-8	7.9	147
71	Novel approaches to bacterial infection therapy by interfering with cell-to-cell signaling. <i>Current Protocols in Microbiology</i> , 2009 , Chapter 17, Unit17.3	7.1	3
70	Inter-kingdom signalling: communication between bacteria and their hosts. <i>Nature Reviews Microbiology</i> , 2008 , 6, 111-20	22.2	522
69	The pangenome structure of Escherichia coli: comparative genomic analysis of E. coli commensal and pathogenic isolates. <i>Journal of Bacteriology</i> , 2008 , 190, 6881-93	3.5	607
68	Global Effects of the Cell-to-Cell Signaling Molecules Autoinducer-2, Autoinducer-3, and Epinephrine in a luxS Mutant of Enterohemorrhagic Escherichia coli. <i>Infection and Immunity</i> , 2008 , 76, 1319-1319	3.7	78
67	Targeting QseC signaling and virulence for antibiotic development. <i>Science</i> , 2008 , 321, 1078-80	33.3	382
66	CadA negatively regulates Escherichia coli O157:H7 adherence and intestinal colonization. <i>Infection and Immunity</i> , 2008 , 76, 5072-81	3.7	26
65	Novel approaches to bacterial infection therapy by interfering with bacteria-to-bacteria signaling. <i>Expert Review of Anti-Infective Therapy</i> , 2007 , 5, 271-6	5.5	32
64	Development of novel plasmid vectors and a promoter trap system in Francisella tularensis compatible with the pFLN10 based plasmids. <i>Plasmid</i> , 2007 , 58, 159-66	3.3	13
63	QseA directly activates transcription of LEE1 in enterohemorrhagic Escherichia coli. <i>Infection and Immunity</i> , 2007 , 75, 2432-40	3.7	53
62	Adrenergic regulation of bacterial virulence. <i>Journal of Infectious Diseases</i> , 2007 , 195, 1248-9	7	9

61	A novel two-component signaling system that activates transcription of an enterohemorrhagic <i>Escherichia coli</i> effector involved in remodeling of host actin. <i>Journal of Bacteriology</i> , 2007 , 189, 2468-76	3.5	112
60	QseA and GrlR/GrlA regulation of the locus of enterocyte effacement genes in enterohemorrhagic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2007 , 189, 5387-92	3.5	51
59	Quorum sensing by enteric pathogens. <i>Current Opinion in Gastroenterology</i> , 2007 , 23, 10-5	3	69
58	Global effects of the cell-to-cell signaling molecules autoinducer-2, autoinducer-3, and epinephrine in a luxS mutant of enterohemorrhagic <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2007 , 75, 4875-84	3.7	96
57	Bundle-forming pili and EspA are involved in biofilm formation by enteropathogenic <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 3952-61	3.5	61
56	The QseC sensor kinase: a bacterial adrenergic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10420-10425	11.5	421
55	Autoinducer 3 and epinephrine signaling in the kinetics of locus of enterocyte effacement gene expression in enterohemorrhagic <i>Escherichia coli</i> . <i>Infection and Immunity</i> , 2006 , 74, 5445-55	3.7	117
54	AI-3 synthesis is not dependent on luxS in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2006 , 188, 5668-81	3.5	147
53	Quorum sensing in <i>Escherichia coli</i> and <i>Salmonella</i> . <i>International Journal of Medical Microbiology</i> , 2006 , 296, 125-31	3.7	194
52	Quorum sensing: the many languages of bacteria. <i>FEMS Microbiology Letters</i> , 2006 , 254, 1-11	2.9	279
51	Bacterial cell-to-cell signaling in the gastrointestinal tract. <i>Infection and Immunity</i> , 2005 , 73, 3197-209	3.7	134
50	Events at the host-microbial interface of the gastrointestinal tract III. Cell-to-cell signaling among microbial flora, host, and pathogens: there is a whole lot of talking going on. <i>American Journal of Physiology - Renal Physiology</i> , 2005 , 288, G1105-9	5.1	44
49	Transcriptional regulation of flhDC by QseBC and sigma (FliA) in enterohaemorrhagic <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2005 , 57, 1734-49	4.1	120
48	Transcriptional autoregulation by quorum sensing <i>Escherichia coli</i> regulators B and C (QseBC) in enterohaemorrhagic <i>E. coli</i> (EHEC). <i>Molecular Microbiology</i> , 2005 , 58, 441-55	4.1	65
47	Colonization of gnotobiotic piglets by a luxS mutant strain of <i>Escherichia coli</i> O157:H7. <i>Infection and Immunity</i> , 2005 , 73, 1214-6	3.7	7
46	Modulation of enteropathogenic <i>Escherichia coli</i> virulence by quorum sensing. <i>Infection and Immunity</i> , 2004 , 72, 2329-37	3.7	102
45	Striking a balance: inter-kingdom cell-to-cell signaling, friendship or war?. <i>Trends in Immunology</i> , 2004 , 25, 505-7	14.4	10
44	Cell-to-cell signaling in intestinal pathogens. <i>Current Issues in Intestinal Microbiology</i> , 2004 , 5, 9-17		20

43	Bacteria-host communication: the language of hormones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8951-6	11.5	663
42	Quorum sensing Escherichia coli regulators B and C (QseBC): a novel two-component regulatory system involved in the regulation of flagella and motility by quorum sensing in E. coli. <i>Molecular Microbiology</i> , 2002 , 43, 809-21	4.1	391
41	Quorum-sensing Escherichia coli regulator A: a regulator of the LysR family involved in the regulation of the locus of enterocyte effacement pathogenicity island in enterohemorrhagic E. coli. <i>Infection and Immunity</i> , 2002 , 70, 3085-93	3.7	151
40	Flagella: multipurpose structures in EPEC. <i>Trends in Microbiology</i> , 2002 , 10, 262	12.4	
39	Quorum sensing is a global regulatory mechanism in enterohemorrhagic Escherichia coli O157:H7. <i>Journal of Bacteriology</i> , 2001 , 183, 5187-97	3.5	346
38	Activation of enteropathogenic Escherichia coli (EPEC) LEE2 and LEE3 operons by Ler. <i>Molecular Microbiology</i> , 2000 , 38, 781-93	4.1	115
37	The locus of enterocyte effacement (LEE)-encoded regulator controls expression of both LEE- and non-LEE-encoded virulence factors in enteropathogenic and enterohemorrhagic Escherichia coli. <i>Infection and Immunity</i> , 2000 , 68, 6115-26	3.7	287
36	How the bacterial flora and the epithelial cell get along. <i>Trends in Microbiology</i> , 2000 , 8, 544	12.4	4
35	The Locus of Enterocyte Effacement (LEE)-Encoded Regulator Controls Expression of Both LEE- and Non-LEE-Encoded Virulence Factors in Enteropathogenic and Enterohemorrhagic Escherichia coli. <i>Infection and Immunity</i> , 2000 , 68, 6115-6126	3.7	11
34	The Per regulon of enteropathogenic Escherichia coli : identification of a regulatory cascade and a novel transcriptional activator, the locus of enterocyte effacement (LEE)-encoded regulator (Ler). <i>Molecular Microbiology</i> , 1999 , 33, 296-306	4.1	330
33	Lack of expression of bundle-forming pili in some clinical isolates of enteropathogenic Escherichia coli (EPEC) is due to a conserved large deletion in the bfp operon. <i>FEMS Microbiology Letters</i> , 1999 , 179, 169-74	2.9	28
32	Illuminating quorum sensing. <i>Trends in Microbiology</i> , 1999 , 7, 481	12.4	
31	Characterization of the locus of enterocyte effacement (LEE) in different enteropathogenic Escherichia coli (EPEC) and Shiga-toxin producing Escherichia coli (STEC) serotypes. <i>FEMS Microbiology Letters</i> , 1998 , 164, 133-9	2.9	80
30	Molecular and ultrastructural characterisation of EspA from different enteropathogenic Escherichia coli serotypes. <i>FEMS Microbiology Letters</i> , 1998 , 169, 73-80	2.9	17
29	Comparison between enterotoxigenic Escherichia coli strains expressing "F42," F41 and K99 colonization factors. <i>Microbiology and Immunology</i> , 1993 , 37, 869-75	2.7	5
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