

Edward G Ruby

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.

110
papers

7,321
citations

48
h-index

85
g-index

114
ext. papers

8,444
ext. citations

7
avg, IF

6.01
L-index

#	Paper	IF	Citations
110	Independent host- and bacterium-based determinants protect a model symbiosis from phage predation.. <i>Cell Reports</i> , 2022 , 38, 110376	10.6	1
109	Evidence of Genomic Diversification in a Natural Symbiotic Population Within Its Host.. <i>Frontiers in Microbiology</i> , 2022 , 13, 854355	5.7	0
108	Modeled microgravity alters lipopolysaccharide and outer membrane vesicle production of the beneficial symbiont <i>Vibrio fischeri</i> . <i>Npj Microgravity</i> , 2021 , 7, 8	5.3	3
107	MicroRNA-Mediated Regulation of Initial Host Responses in a Symbiotic Organ. <i>MSystems</i> , 2021 , 6,	7.6	1
106	A lasting symbiosis: how <i>Vibrio fischeri</i> finds a squid partner and persists within its natural host. <i>Nature Reviews Microbiology</i> , 2021 , 19, 654-665	22.2	17
105	Getting to know our microbial friends by dropping into their neighbourhood. <i>Environmental Microbiology Reports</i> , 2021 , 13, 27-30	3.7	
104	Getting the Message Out: the Many Modes of Host-Symbiont Communication during Early-Stage Establishment of the Squid-Vibrio Partnership. <i>MSystems</i> , 2021 , 6, e0086721	7.6	1
103	Bacterial Quorum-Sensing Regulation Induces Morphological Change in a Key Host Tissue during the <i>Euprymna scolopes</i> - <i>Vibrio fischeri</i> Symbiosis. <i>MBio</i> , 2021 , 12, e0240221	7.8	1
102	Tracking the cargo of extracellular symbionts into host tissues with correlated electron microscopy and nanoscale secondary ion mass spectrometry imaging. <i>Cellular Microbiology</i> , 2020 , 22, e13177	3.9	5
101	Interactions of Symbiotic Partners Drive the Development of a Complex Biogeography in the Squid-Vibrio Symbiosis. <i>MBio</i> , 2020 , 11,	7.8	16
100	Using Colonization Assays and Comparative Genomics To Discover Symbiosis Behaviors and Factors in <i>Vibrio fischeri</i> . <i>MBio</i> , 2020 , 11,	7.8	7
99	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses. <i>PLoS Biology</i> , 2020 , 18, e3000934	9.7	17
98	The cytokine MIF controls daily rhythms of symbiont nutrition in an animal-bacterial association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 27578-27586 ^{11.5}	11.5	3
97	HbtR, a Heterofunctional Homolog of the Virulence Regulator TcpP, Facilitates the Transition between Symbiotic and Planktonic Lifestyles in <i>Vibrio fischeri</i> . <i>MBio</i> , 2020 , 11,	7.8	7
96	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		
95	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		
94	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		

93	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		
92	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		
91	The noncoding small RNA SsrA is released by <i>Vibrio fischeri</i> and modulates critical host responses 2020 , 18, e3000934		
90	Critical symbiont signals drive both local and systemic changes in diel and developmental host gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7990-7999	11.5	24
89	Acidic pH promotes lipopolysaccharide modification and alters colonization in a bacteria-animal mutualism. <i>Molecular Microbiology</i> , 2019 , 112, 1326-1338	4.1	11
88	Ambient pH Alters the Protein Content of Outer Membrane Vesicles, Driving Host Development in a Beneficial Symbiosis. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	18
87	The impact of <i>Vibrio fischeri</i> strain variation on host colonization. <i>Current Opinion in Microbiology</i> , 2019 , 50, 15-19	7.9	16
86	Insights into flagellar function and mechanism from the squid-vibrio symbiosis. <i>Npj Biofilms and Microbiomes</i> , 2019 , 5, 32	8.2	15
85	Achieving a multi-strain symbiosis: strain behavior and infection dynamics. <i>ISME Journal</i> , 2019 , 13, 698-706	6.9	36
84	The model squid-vibrio symbiosis provides a window into the impact of strain- and species-level differences during the initial stages of symbiont engagement. <i>Environmental Microbiology</i> , 2018 , 21, 3269	5.2	30
83	Persistent Interactions with Bacterial Symbionts Direct Mature-Host Cell Morphology and Gene Expression in the Squid-Vibrio Symbiosis. <i>MSystems</i> , 2018 , 3,	7.6	10
82	Transcriptional characterization of <i>Vibrio fischeri</i> during colonization of juvenile <i>Euprymna scolopes</i> . <i>Environmental Microbiology</i> , 2017 , 19, 1845-1856	5.2	21
81	Model-enabled gene search (MEGS) allows fast and direct discovery of enzymatic and transport gene functions in the marine bacterium. <i>Journal of Biological Chemistry</i> , 2017 , 292, 10250-10261	5.4	6
80	Bactericidal Permeability-Increasing Proteins Shape Host-Microbe Interactions. <i>MBio</i> , 2017 , 8,	7.8	22
79	Motile cilia create fluid-mechanical microhabitats for the active recruitment of the host microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9510-9516	11.5	61
78	A conserved chemical dialog of mutualism: lessons from squid and vibrio. <i>Microbes and Infection</i> , 2016 , 18, 1-10	9.3	25
77	Rotation of <i>Vibrio fischeri</i> Flagella Produces Outer Membrane Vesicles That Induce Host Development. <i>Journal of Bacteriology</i> , 2016 , 198, 2156-65	3.5	45
76	Stress as a Normal Cue in the Symbiotic Environment. <i>Trends in Microbiology</i> , 2016 , 24, 414-424	12.4	28

75	Diverse high-torque bacterial flagellar motors assemble wider stator rings using a conserved protein scaffold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1917-26	11.5	115
74	Tools for the Microbiome: Nano and Beyond. <i>ACS Nano</i> , 2016 , 10, 6-37	16.7	99
73	Characterization of the <i>Vibrio fischeri</i> Fatty Acid Chemoreceptors, VfcB and VfcB2. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 696-704	4.8	9
72	<i>Vibrio fischeri</i> -derived outer membrane vesicles trigger host development. <i>Cellular Microbiology</i> , 2016 , 18, 488-99	3.9	37
71	A genomic comparison of 13 symbiotic <i>Vibrio fischeri</i> isolates from the perspective of their host source and colonization behavior. <i>ISME Journal</i> , 2016 , 10, 2907-2917	11.9	40
70	A Single Host-Derived Glycan Impacts Key Regulatory Nodes of Symbiont Metabolism in a Coevolved Mutualism. <i>MBio</i> , 2015 , 6, e00811	7.8	17
69	The chemistry of negotiation: rhythmic, glycan-driven acidification in a symbiotic conversation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 566-71	11.5	51
68	The dual nature of haemocyanin in the establishment and persistence of the squid-vibrio symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20140504	4.4	34
67	The putative oligosaccharide translocase SypK connects biofilm formation with quorum signaling in <i>Vibrio fischeri</i> . <i>MicrobiologyOpen</i> , 2014 , 3, 836-48	3.4	18
66	Non-native acylated homoserine lactones reveal that LuxIR quorum sensing promotes symbiont stability. <i>Environmental Microbiology</i> , 2014 , 16, 2623-2634	5.2	10
65	Features governing symbiont persistence in the squid-vibrio association. <i>Molecular Ecology</i> , 2014 , 23, 1624-34	5.7	61
64	A model symbiosis reveals a role for sheathed-flagellum rotation in the release of immunogenic lipopolysaccharide. <i>ELife</i> , 2014 , 3, e01579	8.9	32
63	Initial symbiont contact orchestrates host-organ-wide transcriptional changes that prime tissue colonization. <i>Cell Host and Microbe</i> , 2013 , 14, 183-94	23.4	102
62	Genetic determinants of swimming motility in the squid light-organ symbiont <i>Vibrio fischeri</i> . <i>MicrobiologyOpen</i> , 2013 , 2, 576-94	3.4	37
61	Animals in a bacterial world, a new imperative for the life sciences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3229-36	11.5	1488
60	The first engagement of partners in the <i>Euprymna scolopes</i> - <i>Vibrio fischeri</i> symbiosis is a two-step process initiated by a few environmental symbiont cells. <i>Environmental Microbiology</i> , 2013 , 15, 2937-50	5.2	44
59	Shedding light on bioluminescence regulation in <i>Vibrio fischeri</i> . <i>Molecular Microbiology</i> , 2012 , 84, 795-806	4.1	102
58	O-antigen and core carbohydrate of <i>Vibrio fischeri</i> lipopolysaccharide: composition and analysis of their role in <i>Euprymna scolopes</i> light organ colonization. <i>Journal of Biological Chemistry</i> , 2012 , 287, 8515-30	5.4	48

57	Squid-derived chitin oligosaccharides are a chemotactic signal during colonization by <i>Vibrio fischeri</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 4620-6	4.8	73
56	Phylogeny and fitness of <i>Vibrio fischeri</i> from the light organs of <i>Euprymna scolopes</i> in two Oahu, Hawaii populations. <i>ISME Journal</i> , 2012 , 6, 352-62	11.9	41
55	The novel sigma factor-like regulator RpoQ controls luminescence, chitinase activity, and motility in <i>Vibrio fischeri</i> . <i>MBio</i> , 2012 , 3,	7.8	31
54	The haem-uptake gene cluster in <i>Vibrio fischeri</i> is regulated by Fur and contributes to symbiotic colonization. <i>Environmental Microbiology</i> , 2011 , 13, 2855-64	5.2	33
53	The roles of NO in microbial symbioses. <i>Cellular Microbiology</i> , 2011 , 13, 518-26	3.9	58
52	The N-acetyl-D-glucosamine repressor NagC of <i>Vibrio fischeri</i> facilitates colonization of <i>Euprymna scolopes</i> . <i>Molecular Microbiology</i> , 2011 , 82, 894-903	4.1	37
51	The alternative oxidase (AOX) gene in <i>Vibrio fischeri</i> is controlled by NsrR and upregulated in response to nitric oxide. <i>Molecular Microbiology</i> , 2010 , 77, 44-55	4.1	40
50	A single <i>qrr</i> gene is necessary and sufficient for LuxO-mediated regulation in <i>Vibrio fischeri</i> . <i>Molecular Microbiology</i> , 2010 , 77, 1556-67	4.1	60
49	<i>Vibrio fischeri</i> flavohaemoglobin protects against nitric oxide during initiation of the squid- <i>Vibrio</i> symbiosis. <i>Molecular Microbiology</i> , 2010 , 78, 903-15	4.1	56
48	Natural transformation of <i>Vibrio fischeri</i> requires <i>tfoX</i> and <i>tfoY</i> . <i>Environmental Microbiology</i> , 2010 , 12, 2302-11	5.2	73
47	Transcriptional patterns in both host and bacterium underlie a daily rhythm of anatomical and metabolic change in a beneficial symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2259-64	11.5	132
46	H-NOX-mediated nitric oxide sensing modulates symbiotic colonization by <i>Vibrio fischeri</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8375-80	11.5	82
45	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. <i>Symbiosis</i> , 2010 , 51, 1-12	3	1
44	A single regulatory gene is sufficient to alter bacterial host range. <i>Nature</i> , 2009 , 458, 215-8	50.4	157
43	Recognition between symbiotic <i>Vibrio fischeri</i> and the haemocytes of <i>Euprymna scolopes</i> . <i>Environmental Microbiology</i> , 2009 , 11, 483-93	5.2	101
42	Symbiotic conversations are revealed under genetic interrogation. <i>Nature Reviews Microbiology</i> , 2008 , 6, 752-62	22.2	113
41	Comparative genomics-based investigation of resequencing targets in <i>Vibrio fischeri</i> : focus on point miscalls and artefactual expansions. <i>BMC Genomics</i> , 2008 , 9, 138	4.5	53
40	AinS quorum sensing regulates the <i>Vibrio fischeri</i> acetate switch. <i>Journal of Bacteriology</i> , 2008 , 190, 5915-23	3.5	65

39	Effects of colonization, luminescence, and autoinducer on host transcription during development of the squid-vibrio association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 11323-8	11.5	79
38	Characterization of htrB and msbB mutants of the light organ symbiont <i>Vibrio fischeri</i> . <i>Applied and Environmental Microbiology</i> , 2008 , 74, 633-44	4.8	17
37	Transcriptome analysis of the <i>Vibrio fischeri</i> LuxR-LuxI regulon. <i>Journal of Bacteriology</i> , 2007 , 189, 8387-91	3.5	74
36	The GacA global regulator of <i>Vibrio fischeri</i> is required for normal host tissue responses that limit subsequent bacterial colonization. <i>Cellular Microbiology</i> , 2007 , 9, 766-78	3.9	21
35	A novel lux operon in the cryptically bioluminescent fish pathogen <i>Vibrio salmonicida</i> is associated with virulence. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1825-33	4.8	31
34	Two-component response regulators of <i>Vibrio fischeri</i> : identification, mutagenesis, and characterization. <i>Journal of Bacteriology</i> , 2007 , 189, 5825-38	3.5	56
33	Confocal microscopy of the light organ crypts in juvenile <i>Euprymna scolopes</i> reveals their morphological complexity and dynamic function in symbiosis. <i>Journal of Morphology</i> , 2006 , 267, 555-68	1.6	31
32	<i>Vibrio fischeri</i> and its host: it takes two to tango. <i>Current Opinion in Microbiology</i> , 2006 , 9, 632-8	7.9	123
31	<i>Vibrio fischeri</i> uses two quorum-sensing systems for the regulation of early and late colonization factors. <i>Journal of Bacteriology</i> , 2005 , 187, 3620-9	3.5	146
30	<i>Vibrio fischeri</i> flagellin A is essential for normal motility and for symbiotic competence during initial squid light organ colonization. <i>Journal of Bacteriology</i> , 2004 , 186, 4315-25	3.5	92
29	<i>Vibrio fischeri</i> LuxS and AinS: comparative study of two signal synthases. <i>Journal of Bacteriology</i> , 2004 , 186, 3873-81	3.5	103
28	Microbiology. We get by with a little help from our (little) friends. <i>Science</i> , 2004 , 303, 1305-7	33.3	49
27	FlrA, a sigma54-dependent transcriptional activator in <i>Vibrio fischeri</i> , is required for motility and symbiotic light-organ colonization. <i>Journal of Bacteriology</i> , 2003 , 185, 3547-57	3.5	67
26	The <i>Vibrio fischeri</i> quorum-sensing systems ain and lux sequentially induce luminescence gene expression and are important for persistence in the squid host. <i>Molecular Microbiology</i> , 2003 , 50, 319-314.1	4.1	161
25	LuxO controls luxR expression in <i>Vibrio harveyi</i> : evidence for a common regulatory mechanism in <i>Vibrio</i> . <i>Molecular Microbiology</i> , 2003 , 48, 537-48	4.1	35
24	GacA regulates symbiotic colonization traits of <i>Vibrio fischeri</i> and facilitates a beneficial association with an animal host. <i>Journal of Bacteriology</i> , 2003 , 185, 7202-12	3.5	43
23	Contribution of pilA to competitive colonization of the squid <i>Euprymna scolopes</i> by <i>Vibrio fischeri</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 820-6	4.8	50
22	Population dynamics of <i>Vibrio fischeri</i> during infection of <i>Euprymna scolopes</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 5928-34	4.8	92

21	The <i>Vibrio fischeri</i> sapABCDF locus is required for normal growth, both in culture and in symbiosis. <i>Archives of Microbiology</i> , 2002 , 179, 57-65	3	19
20	LitR, a new transcriptional activator in <i>Vibrio fischeri</i> , regulates luminescence and symbiotic light organ colonization. <i>Molecular Microbiology</i> , 2002 , 45, 131-43	4.1	103
19	Alterations in <i>Vibrio fischeri</i> motility correlate with a delay in symbiosis initiation and are associated with additional symbiotic colonization defects. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2519-28	4.8	70
18	RP4-based plasmids for conjugation between <i>Escherichia coli</i> and members of the Vibrionaceae. <i>Methods in Enzymology</i> , 2002 , 358, 413-26	1.7	178
17	<i>Vibrio fischeri</i> genes hvnA and hvnB encode secreted NAD(+)-glycohydrolases. <i>Journal of Bacteriology</i> , 2001 , 183, 309-17	3.5	95
16	<i>Vibrio fischeri</i> lux genes play an important role in colonization and development of the host light organ. <i>Journal of Bacteriology</i> , 2000 , 182, 4578-86	3.5	287
15	Developmental biology in marine invertebrate symbioses. <i>Current Opinion in Microbiology</i> , 2000 , 3, 603-7.9		35
14	Cryptic luminescence in the cold-water fish pathogen <i>Vibrio salmonicida</i> . <i>Archives of Microbiology</i> , 1999 , 171, 205-9	3	39
13	Oxygen-utilizing reactions and symbiotic colonization of the squid light organ by <i>Vibrio fischeri</i> . <i>Trends in Microbiology</i> , 1999 , 7, 414-20	12.4	85
12	The <i>Euprymna scolopes</i> - <i>Vibrio fischeri</i> symbiosis: a biomedical model for the study of bacterial colonization of animal tissue. <i>Journal of Molecular Microbiology and Biotechnology</i> , 1999 , 1, 13-21	0.9	22
11	Sepiolid and Vibrios: When First They Meet. <i>BioScience</i> , 1998 , 48, 257-265	5.7	61
10	The <i>Vibrio fischeri</i> - <i>Euprymna scolopes</i> Light Organ Association: Current Ecological Paradigms. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 805-12	4.8	110
9	Competitive dominance among strains of luminous bacteria provides an unusual form of evidence for parallel evolution in Sepiolid squid-vibrio symbioses. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 3209-13	4.8	121
8	A new niche for <i>Vibrio logei</i> , the predominant light organ symbiont of squids in the genus <i>Sepiola</i> . <i>Journal of Bacteriology</i> , 1998 , 180, 59-64	3.5	77
7	The periplasmic, group III catalase of <i>Vibrio fischeri</i> is required for normal symbiotic competence and is induced both by oxidative stress and by approach to stationary phase. <i>Journal of Bacteriology</i> , 1998 , 180, 2087-92	3.5	104
6	Construction and symbiotic competence of a luxA-deletion mutant of <i>Vibrio fischeri</i> . <i>Gene</i> , 1996 , 175, 89-94	3.8	27
5	Lessons from a cooperative, bacterial-animal association: the <i>Vibrio fischeri</i> - <i>Euprymna scolopes</i> light organ symbiosis. <i>Annual Review of Microbiology</i> , 1996 , 50, 591-624	17.5	258
4	Occurrence of plasmid DNA in the sepiolid squid symbiont <i>Vibrio fischeri</i> . <i>Current Microbiology</i> , 1994 , 29, 279-286	2.4	31

3	Effect of the Squid Host on the Abundance and Distribution of Symbiotic <i>Vibrio fischeri</i> in Nature. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 1565-71	4.8	156
2	Detection of the Light Organ Symbiont, <i>Vibrio fischeri</i> , in Hawaiian Seawater by Using lux Gene Probes. <i>Applied and Environmental Microbiology</i> , 1992 , 58, 942-7	4.8	70
1	Fractionation of Stable Carbon Isotopes during Chemoautotrophic Growth of Sulfur-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 1987 , 53, 1940-3	4.8	106