Steve Charette

List of Publications by Year in descending order

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118 papers 4,440 citations

33 h-index 61 g-index

119 all docs

119 docs citations

119 times ranked

4706 citing authors

#	Article	IF	CITATIONS
1	Inhibition of Daxx-Mediated Apoptosis by Heat Shock Protein 27. Molecular and Cellular Biology, 2000, 20, 7602-7612.	2.3	391
2	HSP27 Multimerization Mediated by Phosphorylation-sensitive Intermolecular Interactions at the Amino Terminus. Journal of Biological Chemistry, 1999, 274, 9378-9385.	3.4	294
3	The <i>Pseudomonas aeruginosa</i> Pan-Genome Provides New Insights on Its Population Structure, Horizontal Gene Transfer, and Pathogenicity. Genome Biology and Evolution, 2019, 11, 109-120.	2.5	223
4	Virulence, genomic features, and plasticity of Aeromonas salmonicida subsp. salmonicida, the causative agent of fish furunculosis. Veterinary Microbiology, 2014, 169, 1-7.	1.9	181
5	Disulfide Bond-mediated Multimerization of Ask1 and Its Reduction by Thioredoxin-1 Regulate $H \le 0 \le $	2.1	168
6	A brief history of bioinformatics. Briefings in Bioinformatics, 2019, 20, 1981-1996.	6.5	147
7	Clinical utilization of genomics data produced by the international Pseudomonas aeruginosa consortium. Frontiers in Microbiology, 2015, 6, 1036.	3.5	144
8	Specific host genes required for the killing of Klebsiella bacteria by phagocytes. Cellular Microbiology, 2006, 8, 139-148.	2.1	136
9	The Interaction of HSP27 with Daxx Identifies a Potential Regulatory Role of HSP27 in Fasâ€Induced Apoptosis. Annals of the New York Academy of Sciences, 2000, 926, 126-131.	3.8	125
10	Next-generation sequencing (NGS) in the microbiological world: How to make the most of your money. Journal of Microbiological Methods, 2017, 138, 60-71.	1.6	123
11	Comparative Genomics of Isolates of a Pseudomonas aeruginosa Epidemic Strain Associated with Chronic Lung Infections of Cystic Fibrosis Patients. PLoS ONE, 2014, 9, e87611.	2.5	95
12	An adhesion molecule in freeâ€living Dictyostelium amoebae with integrin β features. EMBO Reports, 2006, 7, 617-621.	4.5	93
13	The Wnt Pathway Controls Cell Death Engulfment, Spindle Orientation, and Migration through CED-10/Rac. PLoS Biology, 2010, 8, e1000297.	5.6	90
14	Aminophospholipid Translocase TAT-1 Promotes Phosphatidylserine Exposure during C. elegans Apoptosis. Current Biology, 2007, 17, 994-999.	3.9	76
15	Selective membrane exclusion in phagocytic and macropinocytic cups. Journal of Cell Science, 2006, 119, 4079-4087.	2.0	71
16	Open the Sterivex TM casing: An easy and effective way to improve DNA extraction yields. Limnology and Oceanography: Methods, 2017, 15, 1015-1020.	2.0	71
17	<i>Dictyostelium </i> Tom1 Participates to an Ancestral ESCRTâ€0 Complex. Traffic, 2009, 10, 161-171.	2.7	69
18	Alteration of virulence factors and rearrangement of pAsa5 plasmid caused by the growth of Aeromonas salmonicida in stressful conditions. Veterinary Microbiology, 2011, 152, 353-360.	1.9	62

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19	Potential role of bacteria packaging by protozoa in the persistence and transmission of pathogenic bacteria. Frontiers in Microbiology, 2014, 5, 240.	3.5	59
20	Annual bacterial community cycle in a seasonally iceâ€covered river reflects environmental and climatic conditions. Limnology and Oceanography, 2020, 65, S21.	3.1	59
21	A Kinase-independent Function of Ask1 in Caspase-independent Cell Death. Journal of Biological Chemistry, 2001, 276, 36071-36074.	3.4	53
22	Diversity of antibiotic-resistance genes in Canadian isolates of Aeromonas salmonicida subsp. salmonicida: dominance of pSN254b and discovery of pAsa8. Scientific Reports, 2016, 6, 35617.	3.3	51
23	Detection of Variants of the pRAS3, pAB5S9, and pSN254 Plasmids in Aeromonas salmonicida subsp. salmonicida: Multidrug Resistance, Interspecies Exchanges, and Plasmid Reshaping. Antimicrobial Agents and Chemotherapy, 2014, 58, 7367-7374.	3.2	50
24	A LYST/beige homolog is involved in biogenesis of <i>Dictyostelium </i> secretory lysosomes. Journal of Cell Science, 2007, 120, 2338-2343.	2.0	47
25	Increasing genomic diversity and evidence of constrained lifestyle evolution due to insertion sequences in Aeromonas salmonicida. BMC Genomics, 2016, 17, 44.	2.8	46
26	An Insertion Sequence-Dependent Plasmid Rearrangement in Aeromonas salmonicida Causes the Loss of the Type Three Secretion System. PLoS ONE, 2012, 7, e33725.	2.5	45
27	Hydrodynamic Effects on Biofilms at the Biointerface Using a Microfluidic Electrochemical Cell: Case Study of <i>Pseudomonas sp.</i> Langmuir, 2017, 33, 2041-2049.	3.5	45
28	Preparation of genomic DNA from <i>Dictyostelium discoideum</i> for PCR analysis. BioTechniques, 2004, 36, 574-575.	1.8	42
29	Draft Genome Sequence of the Virulent Strain 01-B526 of the Fish Pathogen Aeromonas salmonicida. Journal of Bacteriology, 2012, 194, 722-723.	2.2	41
30	A Pan-Genomic Approach to Understand the Basis of Host Adaptation in Achromobacter. Genome Biology and Evolution, 2017, 9, 1030-1046.	2.5	40
31	Characterization and diversity of phages infecting Aeromonas salmonicida subsp. salmonicida. Scientific Reports, 2017, 7, 7054.	3.3	37
32	Protein quantification by chemiluminescent Western blotting: Elimination of the antibody factor by dilution series and calibration curve. Journal of Immunological Methods, 2010, 353, 148-150.	1.4	36
33	Annual Protist Community Dynamics in a Freshwater Ecosystem Undergoing Contrasted Climatic Conditions: The Saint-Charles River (Canada). Frontiers in Microbiology, 2019, 10, 2359.	3.5	36
34	Phase variation has a role in <i>Burkholderia ambifaria</i> niche adaptation. ISME Journal, 2010, 4, 49-60.	9.8	35
35	Variants of a genomic island in Aeromonas salmonicida subsp. salmonicida link isolates with their geographical origins. Veterinary Microbiology, 2015, 175, 68-76.	1.9	34
36	Investigation of the virulence and genomics of Aeromonas salmonicida strains isolated from human patients. Infection, Genetics and Evolution, 2019, 68, 1-9.	2.3	31

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37	Effect of Starvation on the Endocytic Pathway in Dictyostelium Cells. Eukaryotic Cell, 2010, 9, 387-392.	3.4	29
38	The Role for the Small Cryptic Plasmids As Moldable Vectors for Genetic Innovation in Aeromonas salmonicida subsp. salmonicida. Frontiers in Genetics, 2017, 8, 211.	2.3	29
39	Formation of multivesicular endosomes in Dictyostelium. Journal of Cell Science, 2004, 117, 6053-6059.	2.0	28
40	A Role for Adaptor Protein-3 Complex in the Organization of the Endocytic Pathway in Dictyostelium. Traffic, 2006, 7, 1528-1538.	2.7	28
41	Lipid Composition of Multilamellar Bodies Secreted by Dictyostelium discoideum Reveals Their Amoebal Origin. Eukaryotic Cell, 2013, 12, 1326-1334.	3.4	28
42	The mechanism whereby heat shock induces apoptosis depends on the innate sensitivity of cells to stress. Cell Stress and Chaperones, 2010, 15, 101-113.	2.9	26
43	Survival of enterohemorrhagic <i><scp>E</scp>scherichia coli</i> in the presence of <i><scp>A</scp>canthamoeba castellanii</i> and its dependence on <scp>P</scp> ho regulon. MicrobiologyOpen, 2012, 1, 427-437.	3.0	26
44	One Aeromonas salmonicida subsp. salmonicida isolate with a pAsa5 variant bearing antibiotic resistance and a pRAS3 variant making a link with a swine pathogen. Science of the Total Environment, 2019, 690, 313-320.	8.0	26
45	Cloning and characterization of hGMEB1, a novel glucocorticoid modulatory element binding protein. FEBS Letters, 1999, 452, 170-176.	2.8	25
46	Diversity and Homogeneity among Small Plasmids of Aeromonas salmonicida subsp. salmonicida Linked with Geographical Origin. Frontiers in Microbiology, 2015, 6, 1274.	3.5	25
47	The <i>Aeromonas salmonicida</i> plasmidome: a model of modular evolution and genetic diversity. Annals of the New York Academy of Sciences, 2021, 1488, 16-32.	3.8	25
48	Amoeba-resisting bacteria found in multilamellar bodies secreted by <i>Dictyostelium discoideum: </i> /i>social amoebae can also package bacteria. FEMS Microbiology Ecology, 2016, 92, fiw025.	2.7	24
49	Study of mesophilic Aeromonas salmonicida A527 strain sheds light on the species' lifestyles and taxonomic dilemma. FEMS Microbiology Letters, 2017, 364, .	1.8	24
50	Altered Composition and Secretion of Lysosomeâ€Derived Compartments in <i>Dictyostelium </i> APâ€3 Mutant Cells. Traffic, 2008, 9, 588-596.	2.7	22
51	Insertion sequenceAS5(ISAS5) is involved in the genomic plasticity of Aeromonas salmonicida. Mobile Genetic Elements, 2013, 3, e25640.	1.8	22
52	<i>AsaGEI2b</i> : a new variant of a genomic island identified in the <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> salmonicidasalmon	1.8	22
53	Molybdate transporter ModABC is important for Pseudomonas aeruginosa chronic lung infection. BMC Research Notes, 2016, 9, 23.	1.4	22
54	Plasmid composition in Aeromonas salmonicida subsp. salmonicida 01-B526 unravels unsuspected type three secretion system loss patterns. BMC Genomics, 2017, 18, 528.	2.8	22

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55	Antibiotic resistance due to an unusual ColE1-type replicon plasmid in Aeromonas salmonicida. Microbiology (United Kingdom), 2016, 162, 942-953.	1.8	22
56	Draft genome sequences of two Aeromonas salmonicida subsp. salmonicida isolates harboring plasmids conferring antibiotic resistance. FEMS Microbiology Letters, 2015, 362, 1-4.	1.8	21
57	Packaging of Campylobacter jejuni into Multilamellar Bodies by the Ciliate Tetrahymena pyriformis. Applied and Environmental Microbiology, 2016, 82, 2783-2790.	3.1	20
58	Strong Genomic and Phenotypic Heterogeneity in the Aeromonas sobria Species Complex. Frontiers in Microbiology, 2017, 8, 2434.	3.5	20
59	Shiga toxins decrease enterohaemorrhagicEscherichia colisurvival withinAcanthamoeba castellanii. FEMS Microbiology Letters, 2013, 344, 86-93.	1.8	19
60	Flowâ€Based Deacidification of <i>Geobacter sulfurreducens</i> Biofilms Depends on Nutrient Conditions: a Microfluidic Bioelectrochemical Study. ChemElectroChem, 2018, 5, 3645-3653.	3.4	19
61	The mosaic architecture of <i> Aeromonas salmonicida </i> subsp. <i> salmonicida </i> pAsa4 plasmid and its consequences on antibiotic resistance. PeerJ, 2016, 4, e2595.	2.0	19
62	IS-mediated loss of virulence by <i><i>Aeromonas salmonicida</i></i> . Mobile Genetic Elements, 2013, 3, e23498.	1.8	18
63	Beyond the Aâ€layer: adsorption of lipopolysaccharides and characterization of bacteriophageâ€insensitive mutants of <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> Molecular Microbiology, 2019, 112, 667-677.	2.5	17
64	A novel phosphatidylinositol 4,5-bisphosphate-binding domain targeting the Phg2 kinase to the membrane in Dictyostelium cells. European Journal of Cell Biology, 2005, 84, 951-960.	3.6	16
65	Exocytosis of late endosomes does not directly contribute membrane to the formation of phagocytic cups or pseudopods in Dictyostelium. FEBS Letters, 2006, 580, 4923-4928.	2.8	16
66	Amoeba Host Model for Evaluation of Streptococcus suis Virulence. Applied and Environmental Microbiology, 2011, 77, 6271-6273.	3.1	16
67	Haloacetic acid degradation by a biofilm in a simulated drinking water distribution system. Water Science and Technology: Water Supply, 2013, 13, 447-461.	2.1	16
68	Identification of dichloroacetic acid degrading <i>Cupriavidus</i> bacteria in a drinking water distribution network model. Journal of Applied Microbiology, 2014, 116, 208-221.	3.1	16
69	Who qualifies to be a bioinformatician?. Frontiers in Genetics, 2015, 6, 164.	2.3	16
70	A Mesophilic Aeromonas salmonicida Strain Isolated from an Unsuspected Host, the Migratory Bird Pied Avocet. Microorganisms, 2019, 7, 592.	3.6	16
71	Pseudomonas aeruginosa isolates from dental unit waterlines can be divided in two distinct groups, including one displaying phenotypes similar to isolates from cystic fibrosis patients. Frontiers in Microbiology, 2015, 5, 802.	3. 5	15
72	Comparative Genomics of Typical and Atypical Aeromonas salmonicida Complete Genomes Revealed New Insights into Pathogenesis Evolution. Microorganisms, 2022, 10, 189.	3.6	15

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73	Improvement in the DNA sequencing of genomes bearing long repeated elements. Journal of Microbiological Methods, 2014, 107, 186-188.	1.6	14
74	A Generalized Kinetic Framework Applied to Wholeâ€Cell Bioelectrocatalysis in Bioflow Reactors Clarifies Performance Enhancements for ⟨i⟩Geobacter Sulfurreducens⟨ i⟩Biofilms. ChemElectroChem, 2019, 6, 2715-2718.	3.4	14
75	Development of a flow standard to enable highly reproducible measurements of deformability of stored red blood cells in a microfluidic device. Transfusion, 2020, 60, 1032-1041.	1.6	13
76	Characterization of the Antibacterial Activity of an SiO2 Nanoparticular Coating to Prevent Bacterial Contamination in Blood Products. Antibiotics, 2022, 11, 107.	3.7	13
77	Detection of Cryptosporidium spp. and Giardia spp. in Environmental Water Samples: A Journey into the Past and New Perspectives. Microorganisms, 2022, 10, 1175.	3.6	13
78	Aeromonas salmonicida Ati2 is an effector protein of the type three secretion system. Microbiology (United Kingdom), 2013, 159, 1937-1945.	1.8	12
79	A new approach to study attached biofilms and floating communities from Pseudomonas aeruginosa strains of various origins reveals diverse effects of divalent ions. FEMS Microbiology Letters, 2018, 365, .	1.8	11
80	Microbe Profile: Aeromonas salmonicida: an opportunistic pathogen with multiple personalities. Microbiology (United Kingdom), 2021, 167 , .	1.8	11
81	To Be or Not to Be Mesophilic, That Is the Question for Aeromonas salmonicida. Microorganisms, 2022, 10, 240.	3.6	11
82	Genome Sequence of the Swine Pathogen Streptococcus suis Serotype 2 Strain S735. Journal of Bacteriology, 2012, 194, 6343-6344.	2.2	10
83	Propidium monoazide (PMA) and ethidium bromide monoazide (EMA) improve DNA array and high-throughput sequencing of porcine reproductive and respiratory syndrome virus identification. Journal of Virological Methods, 2015, 222, 182-191.	2.1	10
84	Whole Genome Sequencing of a Canadian Bovine Gammaherpesvirus 4 Strain and the Possible Link between the Viral Infection and Respiratory and Reproductive Clinical Manifestations in Dairy Cattle. Frontiers in Veterinary Science, 2017, 4, 92.	2.2	10
85	Genomic and phenotypic characterization of an atypical <i>Aeromonas salmonicida</i> strain isolated from a lumpfish and producing unusual granular structures. Journal of Fish Diseases, 2018, 41, 673-681.	1.9	10
86	Toggling <i>Geobacter sulfurreducens</i> metabolic state reveals hidden behaviour and expanded applicability to sustainable energy applications. Sustainable Energy and Fuels, 2019, 3, 2211-2217.	4.9	10
87	Characterization of bacteriophage T7-Ah reveals its lytic activity against a subset of both mesophilic and psychrophilic Aeromonas salmonicida strains. Archives of Virology, 2021, 166, 521-533.	2.1	10
88	Optimization of a plasmid electroporation protocol for Aeromonas salmonicida subsp. salmonicida. Journal of Microbiological Methods, 2014, 98, 44-49.	1.6	9
89	Assessing Pseudomonas aeruginosa Virulence Using a Nonmammalian Host: Dictyostelium discoideum. Methods in Molecular Biology, 2014, 1149, 671-680.	0.9	9
90	Variability of protein level and phosphorylation status caused by biopsy protocol design in human skeletal muscle analyses. BMC Research Notes, 2011, 4, 488.	1.4	8

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91	Identification of Proteins Associated with Multilamellar Bodies Produced by Dictyostelium discoideum. PLoS ONE, 2016, 11, e0158270.	2.5	8
92	The Rise and Fall of Antibiotics in Aquaculture. , 2019, , 1-19.		8
93	Systematic Analysis of the Stress-Induced Genomic Instability of Type Three Secretion System in Aeromonas salmonicida subsp. salmonicida. Microorganisms, 2021, 9, 85.	3.6	8
94	Implementing a webâ€based introductory bioinformatics course for nonâ€bioinformaticians that incorporates practical exercises. Biochemistry and Molecular Biology Education, 2018, 46, 31-38.	1.2	7
95	<i>AsaGEI2d</i> : a new variant of a genomic island identified in a group of <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> isolated from France, which bears the pAsa7 plasmid. FEMS Microbiology Letters, 2021, 368, .	1.8	7
96	Critical shear stresses of <i>Pseudomonas aeruginosa</i> biofilms from dental unit waterlines studied using microfluidics and additional magnesium ions. Physics of Fluids, 2022, 34, .	4.0	7
97	Identification of low frequency knockout mutants in Dictyostelium discoideum created by single or double homologous recombination. Journal of Biotechnology, 2006, 122, 1-4.	3.8	6
98	Freedom in bioinformatics. Frontiers in Genetics, 2014, 5, 259.	2.3	6
99	Phylogenetic analysis of the fish pathogen <i>Aeromonas salmonicida</i> underlines the dichotomy between European and Canadian strains for the <i>salmonicida</i> subspecies. Journal of Fish Diseases, 2017, 40, 1241-1247.	1.9	6
100	Draft Genome Sequence of Pseudomonas fluorescens ML11A, an Endogenous Strain from Brook Charr with Antagonistic Properties against Aeromonas salmonicida subsp. salmonicida. Genome Announcements, 2017, 5, .	0.8	6
101	Editorial on: Bacterial pathogens in the non-clinical environment. Frontiers in Microbiology, 2015, 6, 331.	3.5	5
102	Stimulated Growth and Innate Immunity in Brook Charr (Salvelinus fontinalis) Treated with a General Probiotic (Bactocell®) and Two Endogenous Probiotics That Inhibit Aeromonas salmonicida In Vitro. Microorganisms, 2019, 7, 193.	3.6	5
103	Improvements of virulence factor phenotypic tests for Aeromonas salmonicida subsp. salmonicida , a major fish pathogen. Journal of Fish Diseases, 2022, 45, 177-184.	1.9	5
104	Phage Cocktail Development against Aeromonas salmonicida subsp. salmonicida Strains Is Compromised by a Prophage. Viruses, 2021, 13, 2241.	3.3	5
105	The fate of multilamellar bodies produced and secreted by Dictyostelium discoideum amoebae. European Journal of Cell Biology, 2017, 96, 767-773.	3.6	4
106	Draft Genome Sequence of an Aeromonas salmonicida subsp. <i>salmonicida</i> Strain from the Canadian Pacific Coast Bearing a Variant of pRAS1. Microbiology Resource Announcements, 2021, 10, .	0.6	4
107	Defective lysosome maturation and Legionella pneumophila replication in Dictyostelium ArfGAP ACAP-A mutant cells. Journal of Cell Science, 2014, 127, 4702-13.	2.0	3
108	Host-Microbiota Interactions and Their Importance in Promoting Growth and Resistance to Opportunistic Diseases in Salmonids. , 2019, , 21-50.		3

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109	Unexpected diversity in the mobilome of a Pseudomonas aeruginosa strain isolated from a dental unit waterline revealed by SMRT Sequencing. Genome, 2018, 61, 359-365.	2.0	2
110	Completion of genome of Aeromonas salmonicida subsp. salmonicida 01-B526 reveals how sequencing technologies can influence sequence quality and result interpretations. New Microbes and New Infections, 2018, 25, 24-26.	1.6	2
111	Would Bacteriophages Be a New Old Complement to Antibiotics in Aquaculture?. , 2019, , 51-68.		2
112	The Pseudomonas aeruginosa Population among Cystic Fibrosis Patients in Quebec, Canada: a Disease Hot Spot without Known Epidemic Isolates. Journal of Clinical Microbiology, 2019, 57, .	3.9	2
113	Evidence that Bacteria Packaging by Tetrahymena Is a Widespread Phenomenon. Microorganisms, 2020, 8, 1548.	3.6	2
114	Draft Genome Sequences of Four Aeromonas salmonicida subsp. achromogenes Strains, 23051, 23053, 23055, and 23056, Isolated from Senegalese Sole (<i>Solea senegalensis</i>). Microbiology Resource Announcements, 2019, 8, .	0.6	2
115	Genomic Perspectives on Aeromonas salmonicida subsp. salmonicida Strain 890054 as a Model System for Pathogenicity Studies and Mitigation of Fish Infections. Frontiers in Marine Science, 2021, 8, .	2.5	2
116	A multi-host approach to identify a transposon mutant of Pseudomonas aeruginosa LESB58 lacking full virulence. BMC Research Notes, 2018, 11, 198.	1.4	0
117	Various dictyostelids from the environment can produce multilamellar bodies. Canadian Journal of Microbiology, 2020, 66, 679-688.	1.7	0
118	10.1063/5.0076737.1., 2022, , .		0