

# Vaughn S Cooper

## 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.

124  
papers

3,334  
citations

31  
h-index

53  
g-index

169  
ext. papers

4,609  
ext. citations

7.3  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
124	The nutritional environment is sufficient to select coexisting biofilm and quorum-sensing mutants of .. <i>Journal of Bacteriology</i> , <b>2022</b> , JB0044421	3.5	0
123	SprayNPray: user-friendly taxonomic profiling of genome and metagenome contigs.. <i>BMC Genomics</i> , <b>2022</b> , 23, 202	4.5	
122	Carbapenem-Resistant <i>Acinetobacter baumannii</i> in U.S. Hospitals: Diversification of Circulating Lineages and Antimicrobial Resistance.. <i>MBio</i> , <b>2022</b> , e0275921	7.8	0
121	Immunosuppression broadens evolutionary pathways to drug resistance and treatment failure during <i>Acinetobacter baumannii</i> pneumonia in mice. <i>Nature Microbiology</i> , <b>2022</b> , 7, 796-809	26.6	0
120	Whole Genome Sequencing Surveillance and Machine Learning of the Electronic Health Record for Enhanced Healthcare Outbreak Detection. <i>Clinical Infectious Diseases</i> , <b>2021</b> ,	11.6	3
119	Adaptation and genomic erosion in fragmented <i>Pseudomonas aeruginosa</i> populations in the sinuses of people with cystic fibrosis. <i>Cell Reports</i> , <b>2021</b> , 37, 109829	10.6	3
118	Outbreak of <i>Pseudomonas aeruginosa</i> Infections from a Contaminated Gastroscope Detected by Whole Genome Sequencing Surveillance. <i>Clinical Infectious Diseases</i> , <b>2021</b> , 73, e638-e642	11.6	3
117	<i>Staphylococcus aureus</i> genotype variation among and within periprosthetic joint infections. <i>Journal of Orthopaedic Research</i> , <b>2021</b> ,	3.8	2
116	Susceptibility of Multidrug-Resistant <i>Pseudomonas aeruginosa</i> following Treatment-Emergent Resistance to Ceftolozane-Tazobactam. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2021</b> , 65,	5.9	9
115	Role of bacterial motility in differential resistance mechanisms of silver nanoparticles and silver ions. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 996-1003	28.7	25
114	Rampant prophage movement among transient competitors drives rapid adaptation during infection. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	3
113	Quorum sensing provides a molecular mechanism for evolution to tune and maintain investment in cooperation. <i>ISME Journal</i> , <b>2021</b> , 15, 1236-1247	11.9	9
112	Genomic and Chemical Diversity of <i>Bacillus subtilis</i> Secondary Metabolites against Plant Pathogenic Fungi. <i>MSystems</i> , <b>2021</b> , 6,	7.6	15
111	Emergence of an early SARS-CoV-2 epidemic in the United States <b>2021</b> ,		3
110	Emergence in late 2020 of multiple lineages of SARS-CoV-2 Spike protein variants affecting amino acid position 677 <b>2021</b> ,		53
109	Quantitative mapping of mRNA 3Uends in <i>Pseudomonas aeruginosa</i> reveals a pervasive role for premature 3Uend formation in response to azithromycin. <i>PLoS Genetics</i> , <b>2021</b> , 17, e1009634	6	2
108	Evolution towards Virulence in a Two-Component System. <i>MBio</i> , <b>2021</b> , 12, e0182321	7.8	1

107	Polygenic Adaptation and Clonal Interference Enable Sustained Diversity in Experimental <i>Pseudomonas aeruginosa</i> Populations. <i>Molecular Biology and Evolution</i> , <b>2021</b> , 38, 5359-5375	8.3	4
106	The roles of history, chance, and natural selection in the evolution of antibiotic resistance. <i>ELife</i> , <b>2021</b> , 10,	8.9	3
105	Evolutionary Divergence of the Wsp Signal Transduction Systems in Beta- and Gammaproteobacteria. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87, e0130621	4.8	2
104	Emergence of an early SARS-CoV-2 epidemic in the United States. <i>Cell</i> , <b>2021</b> , 184, 4939-4952.e15	56.2	2
103	Comparative Evolutionary Patterns of and During Chronic Co-infection of a Cystic Fibrosis Patient Lung. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 574626	5.7	1
102	Experimental Evolution To Identify Selective Pressures during Pneumococcal Colonization. <i>MSystems</i> , <b>2020</b> , 5,	7.6	11
101	Parallel Evolution of Tobramycin Resistance across Species and Environments. <i>MBio</i> , <b>2020</b> , 11,	7.8	23
100	Adaptation and Survival of and During Long-Term Incubation in Saline Solutions Containing Benzalkonium Chloride. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 630	5.8	3
99	Mapping of Influenza Virus RNA-RNA Interactions Reveals a Flexible Network. <i>Cell Reports</i> , <b>2020</b> , 31, 107823	10.6	19
98	Complete Genome Sequences of 13 <i>Bacillus subtilis</i> Soil Isolates for Studying Secondary Metabolite Diversity. <i>Microbiology Resource Announcements</i> , <b>2020</b> , 9,	1.3	9
97	Systematic detection of horizontal gene transfer across genera among multidrug-resistant bacteria in a single hospital. <i>ELife</i> , <b>2020</b> , 9,	8.9	21
96	Author response: Systematic detection of horizontal gene transfer across genera among multidrug-resistant bacteria in a single hospital <b>2020</b> ,		2
95	Negative frequency-dependent selection maintains coexisting genotypes during fluctuating selection. <i>Molecular Ecology</i> , <b>2020</b> , 29, 138-148	5.7	5
94	One gene, multiple ecological strategies: A biofilm regulator is a capacitor for sustainable diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21647-21657 <sup>11.5</sup>		11
93	Outbreak of Vancomycin-resistant <i>Enterococcus faecium</i> in Interventional Radiology: Detection Through Whole-genome Sequencing-based Surveillance. <i>Clinical Infectious Diseases</i> , <b>2020</b> , 70, 2336-2343 <sup>11.6</sup>		17
92	High-Level Carbapenem Resistance in OXA-232-Producing <i>Raoultella ornithinolytica</i> Triggered by Ertapenem Therapy. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2019</b> , 64,	5.9	8
91	Evolution of Outbreak-Causing Carbapenem-Resistant <i>Klebsiella pneumoniae</i> ST258 at a Tertiary Care Hospital over 8 Years. <i>MBio</i> , <b>2019</b> , 10,	7.8	27
90	NADH Dehydrogenases in Growth and Virulence. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 75	5.7	10

89	Reduced ceftazidime and ertapenem susceptibility due to production of OXA-2 in <i>Klebsiella pneumoniae</i> ST258. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 2203-2208	5.1	1
88	EvolvingSTEM: a microbial evolution-in-action curriculum that enhances learning of evolutionary biology and biotechnology. <i>Evolution: Education and Outreach</i> , <b>2019</b> , 12, 12	1.6	5
87	Use of a cohorting-unit and systematic surveillance cultures to control a <i>Klebsiella pneumoniae</i> carbapenemase (KPC)-producing Enterobacteriaceae outbreak. <i>Infection Control and Hospital Epidemiology</i> , <b>2019</b> , 40, 767-773	2	5
86	Use of online tools for antimicrobial resistance prediction by whole-genome sequencing in methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) and vancomycin-resistant enterococci (VRE). <i>Journal of Global Antimicrobial Resistance</i> , <b>2019</b> , 19, 136-143	3.4	8
85	Structural basis of DSF recognition by its receptor RpfR and its regulatory interaction with the DSF synthase RpfF. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000123	9.7	14
84	Environment changes epistasis to alter trade-offs along alternative evolutionary paths. <i>Evolution; International Journal of Organic Evolution</i> , <b>2019</b> , 73, 2094-2105	3.8	11
83	<i>Pseudomonas aeruginosa</i> Interstrain Dynamics and Selection of Hyperbiofilm Mutants during a Chronic Infection. <i>MBio</i> , <b>2019</b> , 10,	7.8	23
82	A method of processing nasopharyngeal swabs to enable multiple testing. <i>Pediatric Research</i> , <b>2019</b> , 86, 651-654	3.2	8
81	Forecasting Seasonal Concentrations in New England Shellfish. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	12
80	Evolutionary pathways to antibiotic resistance are dependent upon environmental structure and bacterial lifestyle. <i>ELife</i> , <b>2019</b> , 8,	8.9	58
79	Mutations that improve efficiency of a weak-link enzyme are rare compared to adaptive mutations elsewhere in the genome. <i>ELife</i> , <b>2019</b> , 8,	8.9	7
78	Hidden resources in the genome restore PLP synthesis and robust growth after deletion of the essential gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 24164-24173	11.5	12
77	Expression of myeloid Src-family kinases is associated with poor prognosis in AML and influences Flt3-ITD kinase inhibitor acquired resistance. <i>PLoS ONE</i> , <b>2019</b> , 14, e0225887	3.7	9
76	<i>Clostridioides difficile</i> : a potential source of NpmA in the clinical environment. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2019</b> , 74, 521-523	5.1	9
75	Experimental Evolution as a High-Throughput Screen for Genetic Adaptations. <i>MSphere</i> , <b>2018</b> , 3,	5	47
74	New Insights from Elucidating the Role of LMP1 in Nasopharyngeal Carcinoma. <i>Cancers</i> , <b>2018</b> , 10,	6.6	22
73	Periodic Variation of Mutation Rates in Bacterial Genomes Associated with Replication Timing. <i>MBio</i> , <b>2018</b> , 9,	7.8	16
72	Phylogenomics of colistin-susceptible and resistant XDR <i>Acinetobacter baumannii</i> . <i>Journal of Antimicrobial Chemotherapy</i> , <b>2018</b> , 73, 2952-2959	5.1	14

71	The OmpR Regulator of Burkholderia multivorans Controls Mucoic-to-Nonmucoic Transition and Other Cell Envelope Properties Associated with Persistence in the Cystic Fibrosis Lung. <i>Journal of Bacteriology</i> , <b>2018</b> , 200,	3.5	11
70	Thrombospondin-1 protects against pathogen-induced lung injury by limiting extracellular matrix proteolysis. <i>JCI Insight</i> , <b>2018</b> , 3,	9.9	21
69	Genetic requirements for Staphylococcus aureus nitric oxide resistance and virulence. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1006907	7.6	42
68	Frequency and Mechanisms of Spontaneous Fosfomycin Nonsusceptibility Observed upon Disk Diffusion Testing of Escherichia coli. <i>Journal of Clinical Microbiology</i> , <b>2018</b> , 56,	9.7	23
67	Non-Uniform and Non-Random Binding of Nucleoprotein to Influenza A and B Viral RNA. <i>Viruses</i> , <b>2018</b> , 10,	6.2	13
66	Improved Detection of Culprit Pathogens by Bacterial DNA Sequencing Affects Antibiotic Management Decisions in Severe Pneumonia. <i>American Journal of Case Reports</i> , <b>2018</b> , 19, 1405-1409	1.3	3
65	Parallel genetic adaptation across environments differing in mode of growth or resource availability. <i>Evolution Letters</i> , <b>2018</b> , 2, 355-367	5.3	35
64	Synonymous mutations make dramatic contributions to fitness when growth is limited by a weak-link enzyme. <i>PLoS Genetics</i> , <b>2018</b> , 14, e1007615	6	35
63	Ceftolozane-Tazobactam for the Treatment of Multidrug-Resistant Pseudomonas aeruginosa Infections: Clinical Effectiveness and Evolution of Resistance. <i>Clinical Infectious Diseases</i> , <b>2017</b> , 65, 110-120	11.6	167
62	Sequence Type 631 Vibrio parahaemolyticus, an Emerging Foodborne Pathogen in North America. <i>Journal of Clinical Microbiology</i> , <b>2017</b> , 55, 645-648	9.7	12
61	Outbreak of Klebsiella pneumoniae Carbapenemase-Producing Citrobacter freundii at a Tertiary Acute Care Facility in Miami, Florida. <i>Infection Control and Hospital Epidemiology</i> , <b>2017</b> , 38, 320-326	2	15
60	RelA Mutant Enterococcus faecium with Multiantibiotic Tolerance Arising in an Immunocompromised Host. <i>MBio</i> , <b>2017</b> , 8,	7.8	53
59	Structural modification of LPS in colistin-resistant, KPC-producing Klebsiella pneumoniae. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2017</b> , 72, 3035-3042	5.1	39
58	Parallel Evolution of Two Clades of an Atlantic-Endemic Pathogenic Lineage of Vibrio parahaemolyticus by Independent Acquisition of Related Pathogenicity Islands. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	14
57	Genome-wide analysis of influenza viral RNA and nucleoprotein association. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 8968-8977	20.1	55
56	Genome-Wide Biases in the Rate and Molecular Spectrum of Spontaneous Mutations in Vibrio cholerae and Vibrio fischeri. <i>Molecular Biology and Evolution</i> , <b>2017</b> , 34, 93-109	8.3	52
55	High-Level Fosfomycin Resistance in Vancomycin-Resistant Enterococcus faecium. <i>Emerging Infectious Diseases</i> , <b>2017</b> , 23, 1902-1904	10.2	13
54	Structure of O-Antigen and Hybrid Biosynthetic Locus in Clonal Variants Recovered from a Cystic Fibrosis Patient. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1027	5.7	9

53	Comparative genomics of Burkholderia multivorans, a ubiquitous pathogen with a highly conserved genomic structure. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176191	3.7	8
52	Host-selected mutations converging on a global regulator drive an adaptive leap towards symbiosis in bacteria. <i>ELife</i> , <b>2017</b> , 6,	8.9	27
51	Characterization of a Novel IncHI2 Plasmid Carrying Tandem Copies of blaCTX-M-2 in a fosA6-Harboring Escherichia coli Sequence Type 410 Strain. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 6742-6747	5.9	10
50	The Fitness Effects of Spontaneous Mutations Nearly Unseen by Selection in a Bacterium with Multiple Chromosomes. <i>Genetics</i> , <b>2016</b> , 204, 1225-1238	4	11
49	Evolution of Ecological Diversity in Biofilms of Pseudomonas aeruginosa by Altered Cyclic Diguanylate Signaling. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 2608-18	3.5	46
48	Glutathione-S-transferase FosA6 of Klebsiella pneumoniae origin conferring fosfomycin resistance in ESBL-producing Escherichia coli. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2016</b> , 71, 2460-5	5.1	36
47	Environmental Conditions Associated with Elevated Vibrio parahaemolyticus Concentrations in Great Bay Estuary, New Hampshire. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155018	3.7	17
46	Phylogenomic Study of Burkholderia glathei-like Organisms, Proposal of 13 Novel Burkholderia Species and Emended Descriptions of Burkholderia sordidicola, Burkholderia zhejiangensis, and Burkholderia grimmiae. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 877	5.7	40
45	Diverse phenotypic and genetic responses to short-term selection in evolving Escherichia coli populations. <i>Evolution; International Journal of Organic Evolution</i> , <b>2016</b> , 70, 586-99	3.8	17
44	Long-Term Evolution of during a Chronic Cystic Fibrosis Infection Reveals Shifting Forces of Selection. <i>MSystems</i> , <b>2016</b> , 1,	7.6	55
43	Laboratory Evolution of Microbial Interactions in Bacterial Biofilms. <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 2564-71	3.5	39
42	Benefit of transferred mutations is better predicted by the fitness of recipients than by their ecological or genetic relatedness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 5047-52	11.5	24
41	Evolution of the Insertion-Deletion Mutation Rate Across the Tree of Life. <i>G3: Genes, Genomes, Genetics</i> , <b>2016</b> , 6, 2583-91	3.2	45
40	There and back again: consequences of biofilm specialization under selection for dispersal. <i>Frontiers in Genetics</i> , <b>2015</b> , 6, 18	4.5	18
39	Use of Whole-Genome Phylogeny and Comparisons for Development of a Multiplex PCR Assay To Identify Sequence Type 36 Vibrio parahaemolyticus. <i>Journal of Clinical Microbiology</i> , <b>2015</b> , 53, 1864-72	9.7	14
38	Genome sequence and comparative analysis of a putative entomopathogenic Serratia isolated from Caenorhabditis briggsae. <i>BMC Genomics</i> , <b>2015</b> , 16, 531	4.5	14
37	Character displacement and the evolution of niche complementarity in a model biofilm community. <i>Evolution; International Journal of Organic Evolution</i> , <b>2015</b> , 69, 283-93	3.8	32
36	Genetic characterization of clinical and environmental Vibrio parahaemolyticus from the Northeast USA reveals emerging resident and non-indigenous pathogen lineages. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 272	5.7	30

35	The Rate and Molecular Spectrum of Spontaneous Mutations in the GC-Rich Multichromosome Genome of <i>Burkholderia cenocepacia</i> . <i>Genetics</i> , <b>2015</b> , 200, 935-46	4	51
34	Antibiotic resistance correlates with transmission in plasmid evolution. <i>Evolution; International Journal of Organic Evolution</i> , <b>2014</b> , 68, 3368-80	3.8	32
33	Parallel evolution of small colony variants in <i>Burkholderia cenocepacia</i> biofilms. <i>Genomics</i> , <b>2014</b> , 104, 447-52	4.3	32
32	The origins of specialization: insights from bacteria held 25 years in captivity. <i>PLoS Biology</i> , <b>2014</b> , 12, e1001790	9.7	13
31	The environment affects epistatic interactions to alter the topology of an empirical fitness landscape. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003426	6	67
30	Tangled bank of experimentally evolved <i>Burkholderia</i> biofilms reflects selection during chronic infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E250-9	11.5	132
29	Evolutionary effects of translocations in bacterial genomes. <i>Genome Biology and Evolution</i> , <b>2012</b> , 4, 1256-62	3.62	21
28	Influence of seasonality on the genetic diversity of <i>Vibrio parahaemolyticus</i> in New Hampshire shellfish waters as determined by multilocus sequence analysis. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 3778-82	4.8	27
27	Ecological succession in long-term experimentally evolved biofilms produces synergistic communities. <i>ISME Journal</i> , <b>2011</b> , 5, 369-78	11.9	113
26	Ecology and genetic structure of a northern temperate <i>Vibrio cholerae</i> population related to toxigenic isolates. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 7568-75	4.8	23
25	An insect pathogenic symbiosis between a <i>Caenorhabditis</i> and <i>Serratia</i> . <i>Virulence</i> , <b>2011</b> , 2, 158-61	4.7	29
24	Experimental adaptation of <i>Burkholderia cenocepacia</i> to onion medium reduces host range. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2387-96	4.8	24
23	Why genes evolve faster on secondary chromosomes in bacteria. <i>PLoS Computational Biology</i> , <b>2010</b> , 6, e1000732	5	71
22	Evolutionary rates and gene dispensability associate with replication timing in the archaeon <i>Sulfolobus islandicus</i> . <i>Genome Biology and Evolution</i> , <b>2010</b> , 2, 859-69	3.9	25
21	Breaking the language barrier: experimental evolution of non-native <i>Vibrio fischeri</i> in squid tailors luminescence to the host. <i>Symbiosis</i> , <b>2010</b> , 51, 85-96	3	16
20	Susceptibility of <i>Caenorhabditis elegans</i> to <i>Burkholderia</i> infection depends on prior diet and secreted bacterial attractants. <i>PLoS ONE</i> , <b>2009</b> , 4, e7961	3.7	23
19	EVOLUTION OF THERMAL DEPENDENCE OF GROWTH RATE OF <i>ESCHERICHIA COLI</i> POPULATIONS DURING 20,000 GENERATIONS IN A CONSTANT ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , <b>2007</b> , 55, 889-896	3.8	7
18	Long-term experimental evolution in <i>Escherichia coli</i> . X. Quantifying the fundamental and realized niche. <i>BMC Evolutionary Biology</i> , <b>2002</b> , 2, 12	3	21

17	Timing of transmission and the evolution of virulence of an insect virus. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2002</b> , 269, 1161-5	4.4	41
16	Mechanisms causing rapid and parallel losses of ribose catabolism in evolving populations of <i>Escherichia coli</i> B. <i>Journal of Bacteriology</i> , <b>2001</b> , 183, 2834-41	3.5	214
15	Evolution of thermal dependence of growth rate of <i>Escherichia coli</i> populations during 20,000 generations in a constant environment. <i>Evolution; International Journal of Organic Evolution</i> , <b>2001</b> , 55, 889-96	3.8	121
14	Rapid phenotypic change and diversification of a soil bacterium during 1000 generations of experimental evolution. <i>Microbiology (United Kingdom)</i> , <b>2001</b> , 147, 995-1006	2.9	44
13	The population genetics of ecological specialization in evolving <i>Escherichia coli</i> populations. <i>Nature</i> , <b>2000</b> , 407, 736-9	50.4	383
12	TRADEOFF BETWEEN HORIZONTAL AND VERTICAL MODES OF TRANSMISSION IN BACTERIAL PLASMIDS. <i>Evolution; International Journal of Organic Evolution</i> , <b>1998</b> , 52, 315-329	3.8	101
11	Experimental Evolution of Pathogens215-224		
10	Experimental evolution to identify undescribed mechanisms of resistance to a novel cationic peptide antibiotic		1
9	The Study of Microbial Adaptation by Long-Term Experimental Evolution55-81		2
8	Bacterial community profiles and <i>Vibrio parahaemolyticus</i> abundance in individual oysters and their association with estuarine ecology		1
7	SARS-CoV-2 genome evolution exposes early human adaptations		3
6	The roles of history, chance, and natural selection in the evolution of antibiotic resistance		2
5	Genomic and chemical diversity of <i>Bacillus subtilis</i> secondary metabolites against plant pathogenic fungi		2
4	The <i>Pseudomonas aeruginosa</i> Wsp pathway undergoes positive evolutionary selection during chronic infection		1
3	Evolutionary pathways to antibiotic resistance are dependent upon environmental structure and bacterial lifestyle		2
2	Parallel evolution of tobramycin resistance across species and environments		1
1	SprayNPray: user-friendly taxonomic profiling of genome and metagenome contigs		1