Vincent Burrus

List of Publications by Year
in descending order

71 papers	4,047 citations	117625 34 h-index	123424 61 g-index
75 all docs	75 docs citations	75 times ranked	2716 citing authors

#	Article	IF	Citations
1	Shaping bacterial genomes with integrative and conjugative elements. Research in Microbiology, 2004, 155, 376-386.	2.1	402
2	Conjugative transposons: the tip of the iceberg. Molecular Microbiology, 2002, 46, 601-610.	2.5	382
3	Comparative ICE Genomics: Insights into the Evolution of the SXT/R391 Family of ICEs. PLoS Genetics, 2009, 5, e1000786.	3.5	247
4	The current ICE age: Biology and evolution of SXT-related integrating conjugative elements. Plasmid, 2006, 55, 173-183.	1.4	208
5	Cyclic Di-GMP Riboswitch-Regulated Type IV Pili Contribute to Aggregation of Clostridium difficile. Journal of Bacteriology, 2015, 197, 819-832.	2.2	161
6	The ICESt1 element of Streptococcus thermophilus belongs to a large family of integrative and conjugative elements that exchange modules and change their specificity of integration. Plasmid, 2002, 48, 77-97.	1.4	137
7	c-di-GMP Turn-Over in Clostridium difficile Is Controlled by a Plethora of Diguanylate Cyclases and Phosphodiesterases. PLoS Genetics, 2011, 7, e1002039.	3.5	128
8	Mobile Antibiotic Resistance Encoding Elements Promote Their Own Diversity. PLoS Genetics, 2009, 5, e1000775.	3.5	113
9	The Master Activator of IncA/C Conjugative Plasmids Stimulates Genomic Islands and Multidrug Resistance Dissemination. PLoS Genetics, 2014, 10, e1004714.	3.5	106
10	Control of SXT Integration and Excision. Journal of Bacteriology, 2003, 185, 5045-5054.	2.2	105
11	Integrating conjugative elements of the SXT/R391 family trigger the excision and drive the mobilization of a new class of Vibrio genomic islands. Molecular Microbiology, 2010, 78, 576-588.	2.5	99
12	Comparison of SXT and R391, two conjugative integrating elements: definition of a genetic backbone for the mobilization of resistance determinants. Cellular and Molecular Life Sciences, 2002, 59, 2065-2070.	5.4	92
13	Replication and Active Partition of Integrative and Conjugative Elements (ICEs) of the SXT/R391 Family: The Line between ICEs and Conjugative Plasmids Is Getting Thinner. PLoS Genetics, 2015, 11, e1005298.	3.5	90
14	Evolution of genomic islands by deletion and tandem accretion by site-specific recombination: ICESt1-related elements from Streptococcus thermophilus. Microbiology (United Kingdom), 2004, 150, 759-774.	1.8	75
15	Beyond antibiotic resistance: integrating conjugative elements of the SXT/R391 family that encode novel diguanylate cyclases participate to câ€diâ€GMP signalling in Vibrio cholerae. Environmental Microbiology, 2010, 12, 510-523.	3.8	75
16	Regulation of Type IV Pili Contributes to Surface Behaviors of Historical and Epidemic Strains of Clostridium difficile. Journal of Bacteriology, 2016, 198, 565-577.	2.2	74
17	Biology of Three ICE Families: SXT/R391, ICE Bs1 , and ICE St1 /ICE St3. Microbiology Spectrum, 2014, 2, .	3.0	62
18	SXT-Related Integrating Conjugative Element in New World Vibrio cholerae. Applied and Environmental Microbiology, 2006, 72, 3054-3057.	3.1	61

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19	Genomic and Functional Analysis of ICE Pda Spa1, a Fish-Pathogen-Derived SXT-Related Integrating Conjugative Element That Can Mobilize a Virulence Plasmid. Journal of Bacteriology, 2008, 190, 3353-3361.	2.2	58
20	Mechanisms of stabilization of integrative and conjugative elements. Current Opinion in Microbiology, 2017, 38, 44-50.	5.1	58
21	Characterization of a Novel Type II Restriction-Modification System, Sth 368I, Encoded by the Integrative Element ICE St1 of Streptococcus thermophilus CNRZ368. Applied and Environmental Microbiology, 2001, 67, 1522-1528.	3.1	57
22	Identification of the Origin of Transfer (oriT) and a New Gene Required for Mobilization of the SXT/R391 Family of Integrating Conjugative Elements. Journal of Bacteriology, 2008, 190, 5328-5338.	2.2	57
23	IncA/C Conjugative Plasmids Mobilize a New Family of Multidrug Resistance Islands in Clinical Vibrio cholerae Non-O1/Non-O139 Isolates from Haiti. MBio, 2016, 7, .	4.1	57
24	Formation of SXT Tandem Arrays and SXT-R391 Hybrids. Journal of Bacteriology, 2004, 186, 2636-2645.	2.2	56
25	Uncovering the Prevalence and Diversity of Integrating Conjugative Elements in Actinobacteria. PLoS ONE, 2011, 6, e27846.	2.5	56
26	Development of pVCR94Î”X from Vibrio cholerae, a prototype for studying multidrug resistant IncA/C conjugative plasmids. Frontiers in Microbiology, 2014, 5, 44.	3.5	51
27	Mobilizable genomic islands, different strategies for the dissemination of multidrug resistance and other adaptive traits. Mobile Genetic Elements, 2017, 7, 1-6.	1.8	51
28	The extended regulatory networks of SXT/R391 integrative and conjugative elements and IncA/C conjugative plasmids. Frontiers in Microbiology, 2015, 6, 837.	3.5	48
29	Transfer activation of SXT/R391 integrative and conjugative elements: unraveling the SetCD regulon. Nucleic Acids Research, 2015, 43, 2045-2056.	14.5	48
30	Highâ€efficiency delivery of CRISPRâ€Cas9 by engineered probiotics enables precise microbiome editing. Molecular Systems Biology, 2021, 17, e10335.	7.2	47
31	The dualistic nature of integrative and conjugative elements. Mobile Genetic Elements, 2015, 5, 98-102.	1.8	46
32	Salmonella genomic island 1 (SGI1) reshapes the mating apparatus of IncC conjugative plasmids to promote self-propagation. PLoS Genetics, 2017, 13, e1006705.	3.5	46
33	Characterization of a Novel Integrative Element, ICE St1 , in the Lactic Acid Bacterium Streptococcus thermophilus. Applied and Environmental Microbiology, 2000, 66, 1749-1753.	3.1	44
34	Highly efficient gene transfer in the mouse gut microbiota is enabled by the Incl2 conjugative plasmid TP114. Communications Biology, 2020, 3, 523.	4.4	41
35	Biofilm Formation Drives Transfer of the Conjugative Element ICE Bs1 in Bacillus subtilis. MSphere, 2018, 3, .	2.9	38
36	Comparative Analysis of Mobilizable Genomic Islands. Journal of Bacteriology, 2013, 195, 606-614.	2.2	37

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37	Diversity of integrating conjugative elements in actinobacteria. Mobile Genetic Elements, 2012, 2, 119-124.	1.8	35
38	Redefinition and Unification of the SXT/R391 Family of Integrative and Conjugative Elements. Applied and Environmental Microbiology, 2018, 84, .	3.1	35
39	DNA-Damaging Agents Induce the RecA-Independent Homologous Recombination Functions of Integrating Conjugative Elements of the SXT/R391 Family. Journal of Bacteriology, 2013, 195, 1991-2003.	2.2	34
40	A ProQ/FinO family protein involved in plasmid copy number control favours fitness of bacteria carryingmcr-1-bearing IncI2 plasmids. Nucleic Acids Research, 2021, 49, 3981-3996.	14.5	34
41	IncC conjugative plasmids and SXT/R391 elements repair double-strand breaks caused by CRISPRâ€“Cas during conjugation. Nucleic Acids Research, 2020, 48, 8815-8827.	14.5	33
42	Requirement for Vibrio cholerae Integration Host Factor in Conjugative DNA Transfer. Journal of Bacteriology, 2006, 188, 5704-5711.	2.2	31
43	Entry Exclusion of Conjugative Plasmids of the IncA, IncC, and Related Untyped Incompatibility Groups. Journal of Bacteriology, 2019, 201, .	2.2	31
44	Origin of Vibrio cholerae in Haiti. Lancet Infectious Diseases, The, 2011, 11, 262.	9.1	30
45	ICEVchInd5 is prevalent in epidemic Vibrio cholerae O1 El Tor strains isolated in India. International Journal of Medical Microbiology, 2011, 301, 318-324.	3.6	27
46	Dynamics of the SetCD-Regulated Integration and Excision of Genomic Islands Mobilized by Integrating Conjugative Elements of the SXT/R391 Family. Journal of Bacteriology, 2012, 194, 5794-5802.	2.2	26
47	A Î» Cro-Like Repressor Is Essential for the Induction of Conjugative Transfer of SXT/R391 Elements in Response to DNA Damage. Journal of Bacteriology, 2015, 197, 3822-3833.	2.2	23
48	Identification of genetic and environmental factors stimulating excision from <scp>S</scp>treptomyces scabiei chromosome of the toxicogenic region responsible for pathogenicity. Molecular Plant Pathology, 2016, 17, 501-509.	4.2	23
49	Antibiotic Resistance in Vibrio cholerae: Mechanistic Insights from IncC Plasmid-Mediated Dissemination of a Novel Family of Genomic Islands Inserted at trmE. MSphere, 2020, 5, .	2.9	23
50	Replication of theÂSalmonella Genomic Island 1 (SGI1) triggered by helper IncC conjugative plasmids promotes incompatibility and plasmid loss. PLoS Genetics, 2020, 16, e1008965.	3.5	21
51	Cyclic-di-GMP signaling in the Gram-positive pathogen Clostridium difficile. Current Genetics, 2015, 61, 497-502.	1.7	20
52	Unraveling the regulatory network of IncA/C plasmid mobilization: When genomic islands hijack conjugative elements. Mobile Genetic Elements, 2015, 5, 34-38.	1.8	17
53	Effect of organic matter on nitrogenase metal cofactors homeostasis in <scp>A</scp>zotobacter vinelandii under diazotrophic conditions. Environmental Microbiology Reports, 2016, 8, 76-84.	2.4	17
54	PixR, a Novel Activator of Conjugative Transfer of IncX4 Resistance Plasmids, Mitigates the Fitness Cost of mcr-1 Carriage in Escherichia coli. MBio, 2022, 13, e0320921.	4.1	16

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55	DNA Data Visualization (DDV): Software for Generating Web-Based Interfaces Supporting Navigation and Analysis of DNA Sequence Data of Entire Genomes. PLoS ONE, 2015, 10, e0143615.	2.5	10
56	Crucial role ofSalmonellagenomic island 1 master activator in the parasitism of IncC plasmids. Nucleic Acids Research, 2021, 49, 7807-7824.	14.5	9
57	Genomic islands targeting dusA in Vibrio species are distantly related to Salmonella Genomic Island 1 and mobilizable by IncC conjugative plasmids. PLoS Genetics, 2021, 17, e1009669.	3.5	8
58	A diaminopimelic acid auxotrophicEscherichia colidonor provides improved counterselection following intergeneric conjugation with actinomycetes. Canadian Journal of Microbiology, 2015, 61, 565-574.	1.7	6
59	Electrophoretic Mobility Shift Assay Using Radiolabeled DNA Probes. Methods in Molecular Biology, 2015, 1334, 1-15.	0.9	4
60	ICETh1 and ICETh2, two interdependent mobile genetic elements in Thermus thermophilus transjugation. Environmental Microbiology, 2020, 22, 158-169.	3.8	4
61	Novel chromosome-encodederm(47) determinant responsible for constitutive MLS_Bresistance inHelcococcus kunzii. Journal of Antimicrobial Chemotherapy, 2016, 71, 3046-3049.	3.0	3
62	Significance of the SXT/R391 Family of Integrating Conjugative Elements in Vibrio cholerae. , 2011, , 161-184.		3
63	Editorial: Globally or Regionally Spread of Epidemic Plasmids Carrying Clinically Important Resistance Genes: Epidemiology, Molecular Mechanism, and Drivers. Frontiers in Microbiology, 2021, 12, 822802.	3.5	3
64	Characterization and chimeric structure of a family of integrative and potentially conjugative elements from Streptococcus thermophilus. Dairy Science and Technology, 2001, 81, 57-64.	0.9	2
65	Coagulationâ€“flocculation pre-treatment of surface water used on dairy farms and evaluation of bacterial viability and gene transfer in treatment sludge. Water Quality Research Journal of Canada, 2013, 48, 111-120.	2.7	1
66	Biology of Three ICE Families: SXT/R391, ICEBs1, and ICESt1/ICESt3. , 2015, , 289-309.		1
67	Genome Sequence of a Canadian Vibrio parahaemolyticus Isolate with Unique Mobilizing Capacity. Genome Announcements, 2018, 6, .	0.8	1
68	Title is missing!. , 2020, 16, e1008965.		0
69	Title is missing!. , 2020, 16, e1008965.		0
70	Title is missing!. , 2020, 16, e1008965.		0
71	Title is missing!. , 2020, 16, e1008965.		0