

MarÃ-a P GarcillÃ;n-Barcia

List of Publications by Year in descending order

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47
papers

4,561
citations

172443

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254170

43
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all docs

48
docs citations

48
times ranked

4049
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobility of Plasmids. <i>Microbiology and Molecular Biology Reviews</i> , 2010, 74, 434-452.	6.6	919
2	The diversity of conjugative relaxases and its application in plasmid classification. <i>FEMS Microbiology Reviews</i> , 2009, 33, 657-687.	8.6	500
3	The Repertoire of ICE in Prokaryotes Underscores the Unity, Diversity, and Ubiquity of Conjugation. <i>PLoS Genetics</i> , 2011, 7, e1002222.	3.5	329
4	A classification scheme for mobilization regions of bacterial plasmids. <i>FEMS Microbiology Reviews</i> , 2004, 28, 79-100.	8.6	308
5	Pathways for horizontal gene transfer in bacteria revealed by a global map of their plasmids. <i>Nature Communications</i> , 2020, 11, 3602.	12.8	211
6	Key components of the eight classes of type IV secretion systems involved in bacterial conjugation or protein secretion. <i>Nucleic Acids Research</i> , 2014, 42, 5715-5727.	14.5	200
7	Identification of bacterial plasmids based on mobility and plasmid population biology. <i>FEMS Microbiology Reviews</i> , 2011, 35, 936-956.	8.6	187
8	Plasmid Flux in <i>Escherichia coli</i> ST131 Sublineages, Analyzed by Plasmid Constellation Network (PLACNET), a New Method for Plasmid Reconstruction from Whole Genome Sequences. <i>PLoS Genetics</i> , 2014, 10, e1004766.	3.5	179
9	Why is entry exclusion an essential feature of conjugative plasmids?. <i>Plasmid</i> , 2008, 60, 1-18.	1.4	167
10	Dynamics of the IncW genetic backbone imply general trends in conjugative plasmid evolution. <i>FEMS Microbiology Reviews</i> , 2006, 30, 942-966.	8.6	139
11	Spread of <i>bla</i> _{CTX-M-14} Is Driven Mainly by IncK Plasmids Disseminated among <i>Escherichia coli</i> Phylogroups A, B1, and D in Spain. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 5204-5212.	3.2	112
12	Toward minimal bacterial cells: evolution vs. design. <i>FEMS Microbiology Reviews</i> , 2009, 33, 225-235.	8.6	97
13	A Degenerate Primer MOB Typing (DPMT) Method to Classify Gamma-Proteobacterial Plasmids in Clinical and Environmental Settings. <i>PLoS ONE</i> , 2012, 7, e40438.	2.5	96
14	MOBscan: Automated Annotation of MOB Relaxases. <i>Methods in Molecular Biology</i> , 2020, 2075, 295-308.	0.9	88
15	Comparative Genomics of the Conjugation Region of F-like Plasmids: Five Shades of F. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 71.	3.5	82
16	Different Pathways to Acquiring Resistance Genes Illustrated by the Recent Evolution of IncW Plasmids. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 1472-1480.	3.2	71
17	Conjugative transfer can be inhibited by blocking relaxase activity within recipient cells with intrabodies. <i>Molecular Microbiology</i> , 2007, 63, 404-416.	2.5	65
18	Genomic analysis of the emergence and evolution of multidrug resistance during a <i>Klebsiella pneumoniae</i> outbreak including carbapenem and colistin resistance. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 632-636.	3.0	65

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19	Towards a taxonomy of conjugative plasmids. <i>Current Opinion in Microbiology</i> , 2017, 38, 106-113.	5.1	64
20	Single-stranded DNA intermediates in IS91 rolling-circle transposition. <i>Molecular Microbiology</i> , 2001, 39, 494-502.	2.5	58
21	The Calcium-binding C-terminal Domain of <i>Escherichia coli</i> α -Hemolysin Is a Major Determinant in the Surface-active Properties of the Protein. <i>Journal of Biological Chemistry</i> , 2007, 282, 11827-11835.	3.4	56
22	Plasmid typing and genetic context of AmpC β -lactamases in Enterobacteriaceae lacking inducible chromosomal ampC genes: findings from a Spanish hospital 1999-2007. <i>Journal of Antimicrobial Chemotherapy</i> , 2012, 67, 115-122.	3.0	53
23	Association of Composite IS <i>26-sul3</i> Elements with Highly Transmissible Inc11 Plasmids in Extended-Spectrum- β -Lactamase-Producing <i>Escherichia coli</i> Clones from Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2011, 55, 2451-2457.	3.2	47
24	Evolution of Plasmid Mobility: Origin and Fate of Conjugative and Nonconjugative Plasmids. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	44
25	Role of IncH12 plasmids harbouring blaVIM-1, blaCTX-M-9, aac(6)-Ib and qnrA genes in the spread of multiresistant <i>Enterobacter cloacae</i> and <i>Klebsiella pneumoniae</i> strains in different units at Hospital Vall d'Hebron, Barcelona, Spain. <i>International Journal of Antimicrobial Agents</i> , 2012, 39, 514-517.	2.5	42
26	Engineering the fatty acid synthesis pathway in <i>Synechococcus elongatus</i> PCC 7942 improves omega-3 fatty acid production. <i>Biotechnology for Biofuels</i> , 2018, 11, 239.	6.2	39
27	Distribution of IS91 family insertion sequences in bacterial genomes: evolutionary implications. <i>FEMS Microbiology Ecology</i> , 2002, 42, 303-313.	2.7	38
28	Ordering the bestiary of genetic elements transmissible by conjugation. <i>Mobile Genetic Elements</i> , 2013, 3, e24263.	1.8	38
29	Bringing them together: Plasmid pMV158 rolling circle replication and conjugation under an evolutionary perspective. <i>Plasmid</i> , 2014, 74, 15-31.	1.4	36
30	Analysis of ColE1 MbeC Unveils an Extended Ribbon-Helix-Helix Family of Nicking Accessory Proteins. <i>Journal of Bacteriology</i> , 2009, 191, 1446-1455.	2.2	34
31	Degenerate primer MOB typing of multiresistant clinical isolates of <i>E. coli</i> uncovers new plasmid backbones. <i>Plasmid</i> , 2015, 77, 17-27.	1.4	20
32	Population genomics and antimicrobial resistance dynamics of <i>Escherichia coli</i> in wastewater and river environments. <i>Communications Biology</i> , 2021, 4, 457.	4.4	20
33	In vivo transmission of a plasmid coharbouring blaDHA-1 and qnrB genes between <i>Escherichia coli</i> and <i>Serratia marcescens</i> . <i>FEMS Microbiology Letters</i> , 2010, 308, 24-28.	1.8	19
34	ArdC, a ssDNA-binding protein with a metalloprotease domain, overpasses the recipient hsdRMS restriction system broadening conjugation host range. <i>PLoS Genetics</i> , 2020, 16, e1008750.	3.5	19
35	Genomics of high molecular weight plasmids isolated from an on-farm biopurification system. <i>Scientific Reports</i> , 2016, 6, 28284.	3.3	17
36	PifC and Osa, Plasmid Weapons against Rival Conjugative Coupling Proteins. <i>Frontiers in Microbiology</i> , 2017, 8, 2260.	3.5	17

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37	Cis-Acting Relaxases Guarantee Independent Mobilization of MOBQ4 Plasmids. <i>Frontiers in Microbiology</i> , 2019, 10, 2557.	3.5	16
38	Fitness Cost Evolution of Natural Plasmids of <i>Staphylococcus aureus</i> . <i>MBio</i> , 2021, 12, .	4.1	16
39	Plasmid Conjugation from Proteobacteria as Evidence for the Origin of Xenogenous Genes in Cyanobacteria. <i>Journal of Bacteriology</i> , 2014, 196, 1551-1559.	2.2	15
40	The Facts and Family Secrets of Plasmids That Replicate via the Rolling-Circle Mechanism. <i>Microbiology and Molecular Biology Reviews</i> , 2022, 86, e0022220.	6.6	10
41	Crosstalk Between Type VI Secretion System and Mobile Genetic Elements. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 126.	3.5	9
42	Blueprint for a minimal photoautotrophic cell: conserved and variable genes in <i>Synechococcus elongatus</i> PCC 7942. <i>BMC Genomics</i> , 2011, 12, 25.	2.8	8
43	Plasmid Diversity and Adaptation Analyzed by Massive Sequencing of <i>Escherichia coli</i> Plasmids. , 0, , 219-235.		6
44	PLASmid TAXonomic PCR (PlasTax-PCR), a Multiplex Relaxase MOB Typing to Assort Plasmids into Taxonomic Units. <i>Methods in Molecular Biology</i> , 2022, 2392, 127-142.	0.9	2
45	The antisense leitmotif: A prelude. <i>Plasmid</i> , 2015, 78, 1-3.	1.4	0
46	Conjugative Transfer Systems and Classifying Plasmid Genomes. , 2014, , 1-5.		0
47	Conjugative Transfer Systems and Classifying Plasmid Genomes. , 2018, , 115-118.		0