MarÃ-a P GarcillÃ;n-Barcia

List of Publications by Year in descending order

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

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19	Towards a taxonomy of conjugative plasmids. Current Opinion in Microbiology, 2017, 38, 106-113.	5.1	64
20	Single-stranded DNA intermediates in IS91 rolling-circle transposition. Molecular Microbiology, 2001, 39, 494-502.	2.5	58
21	The Calcium-binding C-terminal Domain of Escherichia coli α-Hemolysin Is a Major Determinant in the Surface-active Properties of the Protein. Journal of Biological Chemistry, 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. Journal of Antimicrobial Chemotherapy, 2012, 67, 115-122.	3.0	53
23	Association of Composite IS <i>26-sul3</i> Elements with Highly Transmissible Incl1 Plasmids in Extended-Spectrum-I²-Lactamase-Producing Escherichia coli Clones from Humans. Antimicrobial Agents and Chemotherapy, 2011, 55, 2451-2457.	3.2	47
24	Evolution of Plasmid Mobility: Origin and Fate of Conjugative and Nonconjugative Plasmids. Molecular Biology and Evolution, 2022, 39, .	8.9	44
25	Role of IncHI2 plasmids harbouring blaVIM-1, blaCTX-M-9, aac(6′)-Ib and qnrA genes in the spread of multiresistant Enterobacter cloacae and Klebsiella pneumoniae strains in different units at Hospital Vall d'Hebron, Barcelona, Spain. International Journal of Antimicrobial Agents, 2012, 39, 514-517.	2.5	42
26	Engineering the fatty acid synthesis pathway in Synechococcus elongatus PCC 7942 improves omega-3 fatty acid production. Biotechnology for Biofuels, 2018, 11, 239.	6.2	39
27	Distribution of IS91 family insertion sequences in bacterial genomes: evolutionary implications. FEMS Microbiology Ecology, 2002, 42, 303-313.	2.7	38
28	Ordering the bestiary of genetic elements transmissible by conjugation. Mobile Genetic Elements, 2013, 3, e24263.	1.8	38
29	Bringing them together: Plasmid pMV158 rolling circle replication and conjugation under an evolutionary perspective. Plasmid, 2014, 74, 15-31.	1.4	36
30	Analysis of ColE1 MbeC Unveils an Extended Ribbon-Helix-Helix Family of Nicking Accessory Proteins. Journal of Bacteriology, 2009, 191, 1446-1455.	2.2	34
31	Degenerate primer MOB typing of multiresistant clinical isolates of E. coli uncovers new plasmid backbones. Plasmid, 2015, 77, 17-27.	1.4	20
32	Population genomics and antimicrobial resistance dynamics of Escherichia coli in wastewater and river environments. Communications Biology, 2021, 4, 457.	4.4	20
33	In vivo transmission of a plasmid coharbouring blaDHA-1 and qnrB genes between Escherichia coli and Serratia marcescens. FEMS Microbiology Letters, 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. PLoS Genetics, 2020, 16, e1008750.	3.5	19
35	Genomics of high molecular weight plasmids isolated from an on-farm biopurification system. Scientific Reports, 2016, 6, 28284.	3.3	17
36	PifC and Osa, Plasmid Weapons against Rival Conjugative Coupling Proteins. Frontiers in Microbiology, 2017, 8, 2260.	3.5	17

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37	Cis-Acting Relaxases Guarantee Independent Mobilization of MOBQ4 Plasmids. Frontiers in Microbiology, 2019, 10, 2557.	3.5	16
38	Fitness Cost Evolution of Natural Plasmids of Staphylococcus aureus. MBio, 2021, 12, .	4.1	16
39	Plasmid Conjugation from Proteobacteria as Evidence for the Origin of Xenologous Genes in Cyanobacteria. Journal of Bacteriology, 2014, 196, 1551-1559.	2.2	15
40	The Facts and Family Secrets of Plasmids That Replicate via the Rolling-Circle Mechanism. Microbiology and Molecular Biology Reviews, 2022, 86, e0022220.	6.6	10
41	Crosstalk Between Type VI Secretion System and Mobile Genetic Elements. Frontiers in Molecular Biosciences, 2019, 6, 126.	3.5	9
42	Blueprint for a minimal photoautotrophic cell: conserved and variable genes in Synechococcus elongatus PCC 7942. BMC Genomics, 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. Methods in Molecular Biology, 2022, 2392, 127-142.	0.9	2
45	The antisense leitmotif: A prelude. Plasmid, 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