JosÃ© R PenadÃ©s

List of Publications by Year
in descending order

103 papers	10,438 citations	31976 53 h-index	34986 98 g-index
108 all docs	108 docs citations	108 times ranked	8599 citing authors

#	Article	IF	Citations
1	Phage-inducible chromosomal islands promote genetic variability by blocking phage reproduction and protecting transductants from phage lysis. PLoS Genetics, 2022, 18, e1010146.	3.5	8
2	Insights into the mechanism of action of the arbitrium communication system in SPbeta phages. Nature Communications, 2022, 13, .	12.8	6
3	Radical genome remodelling accompanied the emergence of a novel host-restricted bacterial pathogen. PLoS Pathogens, 2021, 17, e1009606.	4.7	9
4	Molecular Basis of Lysisâ€"Lysogeny Decisions in Gram-Positive Phages. Annual Review of Microbiology, 2021, 75, 563-581.	7.3	31
5	The arbitrium system controls prophage induction. Current Biology, 2021, 31, 5037-5045.e3.	3.9	22
6	A regulatory cascade controls Staphylococcus aureus pathogenicity island activation. Nature Microbiology, 2021, 6, 1300-1308.	13.3	20
7	Staphylococcal phages and pathogenicity islands drive plasmid evolution. Nature Communications, 2021, 12, 5845.	12.8	26
8	Lateral transduction is inherent to the life cycle of the archetypical Salmonella phage P22. Nature Communications, 2021, 12, 6510.	12.8	30
9	Bacterial chromosomal mobility via lateral transduction exceeds that of classical mobile genetic elements. Nature Communications, 2021, 12, 6509.	12.8	46
10	Shape shifter: redirection of prolate phage capsid assembly by staphylococcal pathogenicity islands. Nature Communications, 2021, 12, 6408.	12.8	12
11	Inhibiting the two-component system GraXRS with verteporfin to combat Staphylococcus aureus infections. Scientific Reports, 2020, 10, 17939.	3.3	10
12	Development of CRISPR-Cas13a-based antimicrobials capable of sequence-specific killing of target bacteria. Nature Communications, 2020, 11, 2934.	12.8	110
13	Beyond the CRISPR-Cas safeguard: PICI-encoded innate immune systems protect bacteria from bacteriophage predation. Current Opinion in Microbiology, 2020, 56, 52-58.	5.1	28
14	Rebooting Synthetic Phage-Inducible Chromosomal Islands: One Method to Forge Them All. Biodesign Research, 2020, 2020, .	1.9	6
15	The structure of a polygamous repressor reveals how phage-inducible chromosomal islands spread in nature. Nature Communications, 2019, 10, 3676.	12.8	11
16	Genetic transduction by phages and chromosomal islands: The new and noncanonical. PLoS Pathogens, 2019, 15, e1007878.	4.7	111
17	Hijacking the Hijackers: Escherichia coli Pathogenicity Islands Redirect Helper Phage Packaging for Their Own Benefit. Molecular Cell, 2019, 75, 1020-1030.e4.	9.7	45
18	Bacteriophages benefit from generalized transduction. PLoS Pathogens, 2019, 15, e1007888.	4.7	69

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19	<i>Staphylococcus aureus</i> in Animals. Microbiology Spectrum, 2019, 7, .	3.0	113
20	Deciphering the Molecular Mechanism Underpinning Phage Arbitrium Communication Systems. Molecular Cell, 2019, 74, 59-72.e3.	9.7	42
21	A multihost bacterial pathogen overcomes continuous population bottlenecks to adapt to new host species. Science Advances, 2019, 5, eaax0063.	10.3	20
22	Sensory deprivation in Staphylococcus aureus. Nature Communications, 2018, 9, 523.	12.8	83
23	Genome hypermobility by lateral transduction. Science, 2018, 362, 207-212.	12.6	187
24	A novel ejection protein from bacteriophage 80Î± that promotes lytic growth. Virology, 2018, 525, 237-247.	2.4	8
25	Lysogenization of Staphylococcus aureus RN450 by phages Ï•11 and Ï•80Î± leads to the activation of the SigB regulon. Scientific Reports, 2018, 8, 12662.	3.3	17
26	Phage-inducible chromosomal islands are ubiquitous within the bacterial universe. ISME Journal, 2018, 12, 2114-2128.	9.8	115
27	Transfer of Antibiotic Resistance in Staphylococcus aureus. Trends in Microbiology, 2017, 25, 893-905.	7.7	180
28	Phage-inducible islands in the Gram-positive cocci. ISME Journal, 2017, 11, 1029-1042.	9.8	82
29	Dissecting the link between the enzymatic activity and the SaPI inducing capacity of the phage 80Î± dUTPase. Scientific Reports, 2017, 7, 11234.	3.3	6
30	Convergent evolution involving dimeric and trimeric dUTPases in pathogenicity island mobilization. PLoS Pathogens, 2017, 13, e1006581.	4.7	9
31	Sak and Sak4 recombinases are required for bacteriophage replication in Staphylococcus aureus. Nucleic Acids Research, 2017, 45, 6507-6519.	14.5	20
32	Pirating conserved phage mechanisms promotes promiscuous staphylococcal pathogenicity island transfer. ELife, 2017, 6, .	6.0	25
33	An essential role for the baseplate protein Gp45 in phage adsorption to Staphylococcus aureus. Scientific Reports, 2016, 6, 26455.	3.3	61
34	Convergent evolution of pathogenicity islands in helper <i>cos</i> phage interference. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150505.	4.0	29
35	Bacterial viruses enable their host to acquire antibiotic resistance genes from neighbouring cells. Nature Communications, 2016, 7, 13333.	12.8	174
36	Another look at the mechanism involving trimeric dUTPases in<i>Staphylococcus aureus</i>pathogenicity island induction involves novel players in the party. Nucleic Acids Research, 2016, 44, 5457-5469.	14.5	20

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37	Staphylococcal Bap Proteins Build Amyloid Scaffold Biofilm Matrices in Response to Environmental Signals. PLoS Pathogens, 2016, 12, e1005711.	4.7	135
38	The Phage-Inducible Chromosomal Islands: A Family of Highly Evolved Molecular Parasites. Annual Review of Virology, 2015, 2, 181-201.	6.7	175
39	Pathogenicity Island-Directed Transfer of Unlinked Chromosomal Virulence Genes. Molecular Cell, 2015, 57, 138-149.	9.7	52
40	A single natural nucleotide mutation alters bacterial pathogen host tropism. Nature Genetics, 2015, 47, 361-366.	21.4	106
41	An rpsL-based allelic exchange vector for Staphylococcus aureus. Plasmid, 2015, 79, 8-14.	1.4	11
42	Bacteriophage-mediated spread of bacterial virulence genes. Current Opinion in Microbiology, 2015, 23, 171-178.	5.1	268
43	Intra- and inter-generic transfer of pathogenicity island-encoded virulence genes by <i>cos</i> phages. ISME Journal, 2015, 9, 1260-1263.	9.8	49
44	Virus Satellites Drive Viral Evolution and Ecology. PLoS Genetics, 2015, 11, e1005609.	3.5	49
45	Staphylococcal pathogenicity island DNA packaging system involving <i>cos</i> -site packaging and phage-encoded HNH endonucleases. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6016-6021.	7.1	73
46	Unravelling bacteriophage Ï•11 requirements for packaging and transfer of mobile genetic elements in <i><scp>S</scp>taphylococcus aureus</i>. Molecular Microbiology, 2014, 91, 423-437.	2.5	31
47	Phage dUTPases Control Transfer of Virulence Genes by a Proto-Oncogenic G Protein-like Mechanism. Molecular Cell, 2013, 49, 947-958.	9.7	51
48	dUTPases, the unexplored family of signalling molecules. Current Opinion in Microbiology, 2013, 16, 163-170.	5.1	32
49	Wall teichoic acid structure governs horizontal gene transfer between major bacterial pathogens. Nature Communications, 2013, 4, 2345.	12.8	128
50	A super-family of transcriptional activators regulates bacteriophage packaging and lysis in Gram-positive bacteria. Nucleic Acids Research, 2013, 41, 7260-7275.	14.5	33
51	The Peptidoglycan Hydrolase of Staphylococcus aureus Bacteriophage Ï•11 Plays a Structural Role in the Viral Particle. Applied and Environmental Microbiology, 2013, 79, 6187-6190.	3.1	20
52	Bap, a Biofilm Matrix Protein of Staphylococcus aureus Prevents Cellular Internalization through Binding to GP96 Host Receptor. PLoS Pathogens, 2012, 8, e1002843.	4.7	87
53	Staphylococcal pathogenicity island interference with helper phage reproduction is a paradigm of molecular parasitism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16300-16305.	7.1	113
54	Structureâ€“function analysis of the SaPIbov1 replication origin in Staphylococcus aureus. Plasmid, 2012, 67, 183-190.	1.4	16

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55	Control of <i>Staphylococcus aureus</i> pathogenicity island excision. Molecular Microbiology, 2012, 85, 833-845.	2.5	40
56	Genome-wide antisense transcription drives mRNA processing in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20172-20177.	7.1	231
57	The role of horizontal gene transfer in<i>Staphylococcus aureus</i>host adaptation. Virulence, 2011, 2, 241-243.	4.4	18
58	RinA controls phage-mediated packaging and transfer of virulence genes in Gram-positive bacteria. Nucleic Acids Research, 2011, 39, 5866-5878.	14.5	30
59	Clp-dependent proteolysis of the LexA N-terminal domain in Staphylococcus aureus. Microbiology (United Kingdom), 2011, 157, 677-684.	1.8	26
60	Extracellular proteases inhibit protein-dependent biofilm formation in Staphylococcus aureus. Microbes and Infection, 2010, 12, 55-64.	1.9	113
61	Adaptation of <i>Staphylococcus aureus</i> to ruminant and equine hosts involves SaPIâ€carried variants of von Willebrand factorâ€binding protein. Molecular Microbiology, 2010, 77, 1583-1594.	2.5	137
62	Moonlighting bacteriophage proteins derepress staphylococcal pathogenicity islands. Nature, 2010, 465, 779-782.	27.8	155
63	The phage-related chromosomal islands of Gram-positive bacteria. Nature Reviews Microbiology, 2010, 8, 541-551.	28.6	363
64	Evolutionary Genomics of Staphylococcus aureus Reveals Insights into the Origin and Molecular Basis of Ruminant Host Adaptation. Genome Biology and Evolution, 2010, 2, 454-466.	2.5	174
65	Protein A-Mediated Multicellular Behavior in<i>Staphylococcus aureus</i>. Journal of Bacteriology, 2009, 191, 832-843.	2.2	267
66	Relevant Role of Fibronectin-Binding Proteins in <i>Staphylococcus aureus</i> Biofilm-Associated Foreign-Body Infections. Infection and Immunity, 2009, 77, 3978-3991.	2.2	183
67	Killing niche competitors by remote-control bacteriophage induction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1234-1238.	7.1	136
68	Protection from Staphylococcus aureus mastitis associated with poly-N-acetyl Î²-1,6 glucosamine specific antibody production using biofilm-embedded bacteria. Vaccine, 2009, 27, 2379-2386.	3.8	58
69	SaPI mutations affecting replication and transfer and enabling autonomous replication in the absence of helper phage. Molecular Microbiology, 2008, 67, 493-503.	2.5	92
70	<i>Staphylococcus aureus</i> Pathogenicity Island DNA Is Packaged in Particles Composed of Phage Proteins. Journal of Bacteriology, 2008, 190, 2434-2440.	2.2	100
71	Wall teichoic acids are dispensable for anchoring the PNAG exopolysaccharide to the Staphylococcus aureus cell surface. Microbiology (United Kingdom), 2008, 154, 865-877.	1.8	95
72	Ïƒ B Regulates IS 256 -Mediated Staphylococcus aureus Biofilm Phenotypic Variation. Journal of Bacteriology, 2007, 189, 2886-2896.	2.2	64

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73	A pathogenicity island replicon in <i>Staphylococcus aureus</i> replicates as an unstable plasmid. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14182-14188.	7.1	69
74	Role of Staphylococcal Phage and SaPI Integrase in Intra- and Interspecies SaPI Transfer. Journal of Bacteriology, 2007, 189, 5608-5616.	2.2	103
75	Staphylococcal infections in rabbit does on two industrial farms. Veterinary Record, 2007, 160, 869-872.	0.3	34
76	Sequence analysis reveals genetic exchanges and intraspecific spread of SaPI2, a pathogenicity island involved in menstrual toxic shock. Microbiology (United Kingdom), 2007, 153, 3235-3245.	1.8	65
77	Biotechnological War against Biofilms. Could Phages Mean the End of Device-Related Infections?. International Journal of Artificial Organs, 2007, 30, 805-812.	1.4	14
78	Phase-variable expression of the biofilm-associated protein (Bap) in Staphylococcus aureus. Microbiology (United Kingdom), 2007, 153, 1702-1710.	1.8	33
79	SaPI operon I is required for SaPI packaging and is controlled by LexA. Molecular Microbiology, 2007, 65, 41-50.	2.5	74
80	Genotypic characterization of Staphylococcus aureus strains isolated from rabbit lesions. Veterinary Microbiology, 2007, 121, 288-298.	1.9	28
81	Î²-Lactam Antibiotics Induce the SOS Response and Horizontal Transfer of Virulence Factors in Staphylococcus aureus. Journal of Bacteriology, 2006, 188, 2726-2729.	2.2	279
82	Biofilm-associated proteins. Comptes Rendus - Biologies, 2006, 329, 849-857.	0.2	147
83	Bap: A family of surface proteins involved in biofilm formation. Research in Microbiology, 2006, 157, 99-107.	2.1	282
84	Biofilm Related Infections: Is There a Place for Conservative Treatment of Port-Related Bloodstream Infections?. International Journal of Artificial Organs, 2006, 29, 379-386.	1.4	13
85	Antibiotic-induced SOS response promotes horizontal dissemination of pathogenicity island-encoded virulence factors in staphylococci. Molecular Microbiology, 2005, 56, 836-844.	2.5	256
86	BapA, a large secreted protein required for biofilm formation and host colonization of Salmonella enterica serovar Enteritidis. Molecular Microbiology, 2005, 58, 1322-1339.	2.5	267
87	SarA Is an Essential Positive Regulator of Staphylococcus epidermidis Biofilm Development. Journal of Bacteriology, 2005, 187, 2348-2356.	2.2	145
88	Staphylococcus aureus Develops an Alternative, ica- Independent Biofilm in the Absence of the arlRS Two-Component System. Journal of Bacteriology, 2005, 187, 5318-5329.	2.2	182
89	Bap-dependent biofilm formation by pathogenic species of Staphylococcus: evidence of horizontal gene transfer?. Microbiology (United Kingdom), 2005, 151, 2465-2475.	1.8	243
90	SarA Positively Controls Bap-Dependent Biofilm Formation in Staphylococcus aureus. Journal of Bacteriology, 2005, 187, 5790-5798.	2.2	84

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91	Calcium Inhibits Bap-Dependent Multicellular Behavior in Staphylococcus aureus. Journal of Bacteriology, 2004, 186, 7490-7498.	2.2	97
92	Role of Biofilm-Associated Protein Bap in the Pathogenesis of Bovine Staphylococcus aureus. Infection and Immunity, 2004, 72, 2177-2185.	2.2	297
93	SarA and not ÏƒB is essential for biofilm development by Staphylococcus aureus. Molecular Microbiology, 2003, 48, 1075-1087.	2.5	400
94	Sip, an integrase protein with excision, circularization and integration activities, defines a new family of mobile Staphylococcus aureus pathogenicity islands. Molecular Microbiology, 2003, 49, 193-210.	2.5	114
95	Expression of the Biofilm-Associated Protein Interferes with Host Protein Receptors of Staphylococcus aureus and Alters the Infective Process. Infection and Immunity, 2002, 70, 3180-3186.	2.2	113
96	Multiple mechanisms for the activation of human platelet aggregation by <i>Staphylococcus aureus</i>: roles for the clumping factors ClfA and ClfB, the serineâ€“aspartate repeat protein SdrE and protein A. Molecular Microbiology, 2002, 44, 1033-1044.	2.5	283
97	Bap, a Staphylococcus aureus Surface Protein Involved in Biofilm Formation. Journal of Bacteriology, 2001, 183, 2888-2896.	2.2	742
98	The Enterococcal Surface Protein, Esp, Is Involved in <i>Enterococcus faecalis</i> Biofilm Formation. Applied and Environmental Microbiology, 2001, 67, 4538-4545.	3.1	511
99	Phosphorylation of the Goodpasture Antigen by Type A Protein Kinases. Journal of Biological Chemistry, 1995, 270, 13254-13261.	3.4	16
100	Characterization and Expression of Multiple Alternatively Spliced Transcripts of the Goodpasture Antigen Gene Region. Goodpasture Antibodies Recognize Recombinant Proteins Representing the Autoantigen and One of its Alternative Forms. FEBS Journal, 1995, 229, 754-760.	0.2	17
101	Role of an intramammary device in protection against experimentally induced staphylococcal mastitis in ewes. American Journal of Veterinary Research, 1993, 54, 732-7.	0.6	1
102	Hydrophobicity of ruminant mastitisStaphylococcus aureus in relation to bacterial aging and slime production. Current Microbiology, 1992, 25, 173-179.	2.2	13
103	<i>Staphylococcus aureus</i> in Animals. , 0, , 731-746.		12