

# Fernando De La Cruz

## 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.

204  
papers

11,320  
citations

56  
h-index

99  
g-index

221  
ext. papers

13,449  
ext. citations

6.5  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
204	PLASmid TAXonomic PCR (PlasTax-PCR), a Multiplex Relaxase MOB Typing to Assort Plasmids into Taxonomic Units. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2392, 127-142	1.4	
203	<i>Synechococcus elongatus</i> PCC 7942 as a Platform for Bioproduction of Omega-3 Fatty Acids. <i>Life</i> , <b>2022</b> , 12, 810	3	0
202	Population genomics and antimicrobial resistance dynamics of <i>Escherichia coli</i> in wastewater and river environments. <i>Communications Biology</i> , <b>2021</b> , 4, 457	6.7	5
201	Integrated strategy for the separation of endotoxins from biofluids. LPS capture on newly synthesized protein. <i>Separation and Purification Technology</i> , <b>2021</b> , 255, 117689	8.3	0
200	COPLA, a taxonomic classifier of plasmids. <i>BMC Bioinformatics</i> , <b>2021</b> , 22, 390	3.6	3
199	Conjugation Inhibitors Effectively Prevent Plasmid Transmission in Natural Environments. <i>MBio</i> , <b>2021</b> , 12, e0127721	7.8	2
198	A Role for Gut Microbiome Fermentative Pathways in Fatty Liver Disease Progression. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	10
197	Biochemical interactions between LPS and LPS-binding molecules. <i>Critical Reviews in Biotechnology</i> , <b>2020</b> , 40, 292-305	9.4	9
196	ArdC, a ssDNA-binding protein with a metalloprotease domain, overpasses the recipient hsdRMS restriction system broadening conjugation host range. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008750	6	3
195	Microbial Oils as Nutraceuticals and Animal Feeds <b>2020</b> , 401-445		1
194	MOBscan: Automated Annotation of MOB Relaxases. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2075, 295-308	1.4	33
193	Plasmid Reconstruction from Next-Gen Data: A Detailed Protocol for the Use of PLACNETw for the Reconstruction of Plasmids from WGS Datasets. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2075, 323-339	1.4	1
192	Pathways for horizontal gene transfer in bacteria revealed by a global map of their plasmids. <i>Nature Communications</i> , <b>2020</b> , 11, 3602	17.4	66
191	Dynamical Task Switching in Cellular Computers. <i>Life</i> , <b>2019</b> , 9,	3	1
190	Natural and Artificial Strategies to Control the Conjugative Transmission of Plasmids <b>2019</b> , 33-64		
189	-Acting Relaxases Guarantee Independent Mobilization of MOB Plasmids. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2557	5.7	7
188	Natural and Artificial Strategies To Control the Conjugative Transmission of Plasmids. <i>Microbiology Spectrum</i> , <b>2018</b> , 6,	8.9	25

187	In-depth resistome analysis by targeted metagenomics. <i>Microbiome</i> , <b>2018</b> , 6, 11	16.6	73
186	fabH deletion increases DHA production in Escherichia coli expressing Pfa genes. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 88	6.4	2
185	Host Range and Genetic Plasticity Explain the Coexistence of Integrative and Extrachromosomal Mobile Genetic Elements. <i>Molecular Biology and Evolution</i> , <b>2018</b> , 35, 2230-2239	8.3	21
184	Negative feedback increases information transmission, enabling bacteria to discriminate sublethal antibiotic concentrations. <i>Science Advances</i> , <b>2018</b> , 4, eaat5771	14.3	3
183	Engineering the fatty acid synthesis pathway in PCC 7942 improves omega-3 fatty acid production. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 239	7.8	28
182	Conjugation inhibitors compete with palmitic acid for binding to the conjugative traffic ATPase TrwD, providing a mechanism to inhibit bacterial conjugation. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 16923-16930	5.4	13
181	Nutrient starvation leading to triglyceride accumulation activates the Entner Doudoroff pathway in Rhodococcus jostii RHA1. <i>Microbial Cell Factories</i> , <b>2017</b> , 16, 35	6.4	11
180	Substrate translocation involves specific lysine residues of the central channel of the conjugative coupling protein TrwB. <i>Molecular Genetics and Genomics</i> , <b>2017</b> , 292, 1037-1049	3.1	5
179	Whole genome sequencing, molecular typing and in vivo virulence of OXA-48-producing Escherichia coli isolates including ST131 H30-Rx, H22 and H41 subclones. <i>Scientific Reports</i> , <b>2017</b> , 7, 12103	4.9	13
178	PLACNETw: a web-based tool for plasmid reconstruction from bacterial genomes. <i>Bioinformatics</i> , <b>2017</b> , 33, 3796-3798	7.2	68
177	AcCNET (Accessory Genome Constellation Network): comparative genomics software for accessory genome analysis using bipartite networks. <i>Bioinformatics</i> , <b>2017</b> , 33, 283-285	7.2	38
176	Genomic and metagenomic technologies to explore the antibiotic resistance mobilome. <i>Annals of the New York Academy of Sciences</i> , <b>2017</b> , 1388, 26-41	6.5	30
175	Relaxases and Plasmid Transfer in Gram-Negative Bacteria. <i>Current Topics in Microbiology and Immunology</i> , <b>2017</b> , 413, 93-113	3.3	16
174	PifC and Osa, Plasmid Weapons against Rival Conjugative Coupling Proteins. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2260	5.7	9
173	Conjugation Inhibitors and Their Potential Use to Prevent Dissemination of Antibiotic Resistance Genes in Bacteria. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2329	5.7	26
172	Heterologous expression of a thermophilic diacylglycerol acyltransferase triggers triglyceride accumulation in Escherichia coli. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176520	3.7	5
171	Towards a taxonomy of conjugative plasmids. <i>Current Opinion in Microbiology</i> , <b>2017</b> , 38, 106-113	7.9	29
170	Genomics of high molecular weight plasmids isolated from an on-farm biopurification system. <i>Scientific Reports</i> , <b>2016</b> , 6, 28284	4.9	12

169	Orthogonal Protein Assembly on DNA Nanostructures Using Relaxases. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4348-52	16.4	32
168	Design of Novel Relaxase Substrates Based on Rolling Circle Replicases for Bioconjugation to DNA Nanostructures. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152666	3.7	4
167	Carriage of Extended-Spectrum Beta-Lactamase-Plasmids Does Not Reduce Fitness but Enhances Virulence in Some Strains of Pandemic E. coli Lineages. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 336	5.7	61
166	Comparative Genomics of the Conjugation Region of F-like Plasmids: Five Shades of F. <i>Frontiers in Molecular Biosciences</i> , <b>2016</b> , 3, 71	5.6	37
165	Tanzawaic Acids, a Chemically Novel Set of Bacterial Conjugation Inhibitors. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148098	3.7	29
164	Concerted action of NIC relaxase and auxiliary protein MobC in RA3 plasmid conjugation. <i>Molecular Microbiology</i> , <b>2016</b> , 101, 439-56	4.1	2
163	Type IV traffic ATPase TrwD as molecular target to inhibit bacterial conjugation. <i>Molecular Microbiology</i> , <b>2016</b> , 100, 912-21	4.1	32
162	Bacterial computing with engineered populations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	8
161	Synthetic Fatty Acids Prevent Plasmid-Mediated Horizontal Gene Transfer. <i>MBio</i> , <b>2015</b> , 6, e01032-15	7.8	44
160	Degenerate primer MOB typing of multiresistant clinical isolates of E. coli uncovers new plasmid backbones. <i>Plasmid</i> , <b>2015</b> , 77, 17-27	3.3	11
159	Towards an integrated model of bacterial conjugation. <i>FEMS Microbiology Reviews</i> , <b>2015</b> , 39, 81-95	15.1	132
158	Transcription factor-based biosensors enlightened by the analyte. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 648	5.7	73
157	Identification of Xenologs and Their Characteristic Low Expression Levels in the Cyanobacterium <i>Synechococcus elongatus</i> . <i>Journal of Molecular Evolution</i> , <b>2015</b> , 80, 292-304	3.1	1
156	Molecular epidemiology and virulence of <i>Escherichia coli</i> O16:H5-ST131: comparison with H30 and H30-Rx subclones of O25b:H4-ST131. <i>International Journal of Medical Microbiology</i> , <b>2014</b> , 304, 1247-57	3.7	41
155	Plasmid conjugation from proteobacteria as evidence for the origin of xenologous genes in cyanobacteria. <i>Journal of Bacteriology</i> , <b>2014</b> , 196, 1551-9	3.5	12
154	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> , <b>2014</b> , 69, 632-6	5.1	51
153	Use of limited proteolysis and mutagenesis to identify folding domains and sequence motifs critical for wax ester synthase/acyl coenzyme A:diacylglycerol acyltransferase activity. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 1132-41	4.8	20
152	Key components of the eight classes of type IV secretion systems involved in bacterial conjugation or protein secretion. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 5715-27	20.1	137

151	Subcellular location of the coupling protein TrwB and the role of its transmembrane domain. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 223-30	3.8	9
150	Plasmid Diversity and Adaptation Analyzed by Massive Sequencing of Escherichia coli Plasmids. <i>Microbiology Spectrum</i> , <b>2014</b> , 2,	8.9	37
149	Dissemination of cephalosporin resistance genes between Escherichia coli strains from farm animals and humans by specific plasmid lineages. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004776	6	213
148	Negative feedback and transcriptional overshooting in a regulatory network for horizontal gene transfer. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004171	6	37
147	Plasmid Flux in Escherichia coli ST131 sublineages, analyzed by plasmid constellation network (PLACNET), a new method for plasmid reconstruction from whole genome sequences. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004766	6	127
146	A high security double lock and key mechanism in HUH relaxases controls oriT-processing for plasmid conjugation. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 10632-43	20.1	10
145	Rebooting the genome: The role of negative feedback in horizontal gene transfer. <i>Mobile Genetic Elements</i> , <b>2014</b> , 4, 1-6		10
144	PipX, the coactivator of NtcA, is a global regulator in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E2423-30	11.5	47
143	The transmembrane domain of the T4SS coupling protein TrwB and its role in protein-protein interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 2015-25	3.8	16
142	Structural independence of conjugative coupling protein TrwB from its Type IV secretion machinery. <i>Plasmid</i> , <b>2013</b> , 70, 146-53	3.3	14
141	CRISPR-Cas systems preferentially target the leading regions of MOB <sub>F</sub> conjugative plasmids. <i>RNA Biology</i> , <b>2013</b> , 10, 749-61	4.8	25
140	Breaking and joining single-stranded DNA: the HUH endonuclease superfamily. <i>Nature Reviews Microbiology</i> , <b>2013</b> , 11, 525-38	22.2	158
139	Functional interactions of VirB11 traffic ATPases with VirB4 and VirD4 molecular motors in type IV secretion systems. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 4195-201	3.5	41
138	Four main virotypes among extended-spectrum-β-lactamase-producing isolates of Escherichia coli O25b:H4-B2-ST131: bacterial, epidemiological, and clinical characteristics. <i>Journal of Clinical Microbiology</i> , <b>2013</b> , 51, 3358-67	9.7	69
137	Catalytic domain of plasmid pAD1 relaxase TraX defines a group of relaxases related to restriction endonucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 13606-11	11.5	22
136	Evolution of conjugation and type IV secretion systems. <i>Molecular Biology and Evolution</i> , <b>2013</b> , 30, 315-38.3		133
135	Ordering the bestiary of genetic elements transmissible by conjugation. <i>Mobile Genetic Elements</i> , <b>2013</b> , 3, e24263		17
134	Multicellular computing using conjugation for wiring. <i>PLoS ONE</i> , <b>2013</b> , 8, e65986	3.7	43

133	Determination of conjugation rates on solid surfaces. <i>Plasmid</i> , <b>2012</b> , 67, 174-82	3.3	28
132	Role of IncHI2 plasmids harbouring blaVIM-1, blaCTX-M-9, aac(69-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. <i>International Journal of Antimicrobial Agents</i> , <b>2012</b> , 39, 514-7	14.3	29
131	Deletion of a single helix from the transmembrane domain causes large changes in membrane insertion properties and secondary structure of the bacterial conjugation protein TrwB. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 3158-66	3.8	7
130	Interaction between relaxase MbeA and accessory protein MbeC of the conjugally mobilizable plasmid ColE1. <i>FEBS Letters</i> , <b>2012</b> , 586, 675-9	3.8	8
129	Plasmid typing and genetic context of AmpC $\beta$ -lactamases in Enterobacteriaceae lacking inducible chromosomal ampC genes: findings from a Spanish hospital 1999-2007. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2012</b> , 67, 115-22	5.1	39
128	The hexameric structure of a conjugative VirB4 protein ATPase provides new insights for a functional and phylogenetic relationship with DNA translocases. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 39925-32	5.4	53
127	Regulation of the type IV secretion ATPase TrwD by magnesium: implications for catalytic mechanism of the secretion ATPase superfamily. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 17408-17414	5.4	17
126	A degenerate primer MOB typing (DPMT) method to classify gamma-proteobacterial plasmids in clinical and environmental settings. <i>PLoS ONE</i> , <b>2012</b> , 7, e40438	3.7	67
125	Membrane insertion stabilizes the structure of TrwB, the R388 conjugative plasmid coupling protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 1032-9	3.8	17
124	Identification of bacterial plasmids based on mobility and plasmid population biology. <i>FEMS Microbiology Reviews</i> , <b>2011</b> , 35, 936-56	15.1	116
123	Blueprint for a minimal photoautotrophic cell: conserved and variable genes in Synechococcus elongatus PCC 7942. <i>BMC Genomics</i> , <b>2011</b> , 12, 25	4.5	7
122	Ecology and evolution as targets: the need for novel eco-evo drugs and strategies to fight antibiotic resistance. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 3649-60	5.9	139
121	Plasmid segregation without partition. <i>Mobile Genetic Elements</i> , <b>2011</b> , 1, 236-241		18
120	Association of composite IS26-sul3 elements with highly transmissible IncI1 plasmids in extended-spectrum-beta-lactamase-producing Escherichia coli clones from humans. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2011</b> , 55, 2451-7	5.9	37
119	Autoinhibitory regulation of TrwK, an essential VirB4 ATPase in type IV secretion systems. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 17376-82	5.4	16
118	The stb operon balances the requirements for vegetative stability and conjugative transfer of plasmid R388. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002073	6	37
117	The repertoire of ICE in prokaryotes underscores the unity, diversity, and ubiquity of conjugation. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002222	6	246
116	In vivo transmission of a plasmid coharbouring bla and qnrB genes between Escherichia coli and Serratia marcescens. <i>FEMS Microbiology Letters</i> , <b>2010</b> , 308, 24-8	2.9	15

115	Conjugative DNA metabolism in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , <b>2010</b> , 34, 18-40	15.1	227
114	Functional dissection of the conjugative coupling protein TrwB. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 2655-69	5.9	37
113	Relaxase DNA binding and cleavage are two distinguishable steps in conjugative DNA processing that involve different sequence elements of the <i>nic</i> site. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 8918-26	5.4	24
112	The conjugative DNA translocase TrwB is a structure-specific DNA-binding protein. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 17537-44	5.4	28
111	Mobility of plasmids. <i>Microbiology and Molecular Biology Reviews</i> , <b>2010</b> , 74, 434-52	13.2	634
110	Reconstitution in liposome bilayers enhances nucleotide binding affinity and ATP-specificity of TrwB conjugative coupling protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 2160-9	3.8	15
109	Numbers on the edges: a simplified and scalable method for quantifying the gene regulation function. <i>BioEssays</i> , <b>2010</b> , 32, 346-55	4.1	4
108	Membrane insertion stabilizes TrwB, the coupling protein of the conjugative plasmid R388. <i>Chemistry and Physics of Lipids</i> , <b>2010</b> , 163, S47	3.7	
107	Analysis of ColE1 MbeC unveils an extended ribbon-helix-helix family of nicking accessory proteins. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 1446-55	3.5	30
106	Plasmid r1 conjugative DNA processing is regulated at the coupling protein interface. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 6877-87	3.5	33
105	Spread of bla(CTX-M-14) is driven mainly by IncK plasmids disseminated among Escherichia coli phylogroups A, B1, and D in Spain. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 5204-12	5.9	102
104	Escherichia coli genes affecting recipient ability in plasmid conjugation: are there any?. <i>BMC Genomics</i> , <b>2009</b> , 10, 71	4.5	65
103	Toward minimal bacterial cells: evolution vs. design. <i>FEMS Microbiology Reviews</i> , <b>2009</b> , 33, 225-35	15.1	83
102	The diversity of conjugative relaxases and its application in plasmid classification. <i>FEMS Microbiology Reviews</i> , <b>2009</b> , 33, 657-87	15.1	352
101	Changing the recognition site of a conjugative relaxase by rational design. <i>Biotechnology Journal</i> , <b>2009</b> , 4, 554-7	5.6	13
100	Why is entry exclusion an essential feature of conjugative plasmids?. <i>Plasmid</i> , <b>2008</b> , 60, 1-18	3.3	117
99	Different pathways to acquiring resistance genes illustrated by the recent evolution of IncW plasmids. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2008</b> , 52, 1472-80	5.9	50
98	ATPase activity and oligomeric state of TrwK, the VirB4 homologue of the plasmid R388 type IV secretion system. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 5472-9	3.5	38

97	Analysis of DNA processing reactions in bacterial conjugation by using suicide oligonucleotides. <i>EMBO Journal</i> , <b>2007</b> , 26, 3847-57	13	43
96	Conjugative transfer can be inhibited by blocking relaxase activity within recipient cells with intrabodies. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 404-16	4.1	54
95	The ATPase activity of the DNA transporter TrwB is modulated by protein TrwA: implications for a common assembly mechanism of DNA translocating motors. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 25569-76	5.4	65
94	The calcium-binding C-terminal domain of Escherichia coli alpha-hemolysin is a major determinant in the surface-active properties of the protein. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 11827-35	5.4	51
93	The relaxase of the Rhizobium etli symbiotic plasmid shows nic site cis-acting preference. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7488-99	3.5	18
92	Transcription modulation of Salmonella enterica serovar Typhimurium promoters by sub-MIC levels of rifampin. <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 7988-91	3.5	52
91	The transmembrane domain provides nucleotide binding specificity to the bacterial conjugation protein TrwB. <i>FEBS Letters</i> , <b>2006</b> , 580, 3075-82	3.8	21
90	Unveiling the molecular mechanism of a conjugative relaxase: The structure of TrwC complexed with a 27-mer DNA comprising the recognition hairpin and the cleavage site. <i>Journal of Molecular Biology</i> , <b>2006</b> , 358, 857-69	6.5	58
89	TrwB: an F(1)-ATPase-like molecular motor involved in DNA transport during bacterial conjugation. <i>Research in Microbiology</i> , <b>2006</b> , 157, 299-305	4	34
88	Dynamics of the IncW genetic backbone imply general trends in conjugative plasmid evolution. <i>FEMS Microbiology Reviews</i> , <b>2006</b> , 30, 942-66	15.1	111
87	A new domain of conjugative relaxase TrwC responsible for efficient oriT-specific recombination on minimal target sequences. <i>Molecular Microbiology</i> , <b>2006</b> , 62, 984-96	4.1	30
86	Bacterial conjugation: a potential tool for genomic engineering. <i>Research in Microbiology</i> , <b>2005</b> , 156, 1-6	4	54
85	Unsaturated fatty acids are inhibitors of bacterial conjugation. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 3517-3526	2.9	80
84	Site-specific recombinase and integrase activities of a conjugative relaxase in recipient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16385-90	11.5	86
83	TrwB, the coupling protein involved in DNA transport during bacterial conjugation, is a DNA-dependent ATPase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 8156-61	11.5	90
82	Regulation of finP transcription by DNA adenine methylation in the virulence plasmid of Salmonella enterica. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 5691-9	3.5	37
81	Functional interactions between type IV secretion systems involved in DNA transfer and virulence. <i>Microbiology (United Kingdom)</i> , <b>2005</b> , 151, 3505-3516	2.9	43
80	Role of the transmembrane domain in the stability of TrwB, an integral protein involved in bacterial conjugation. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 10955-61	5.4	24

79	A classification scheme for mobilization regions of bacterial plasmids. <i>FEMS Microbiology Reviews</i> , <b>2004</b> , 28, 79-100	15.1	264
78	DNA binding properties of protein TrwA, a possible structural variant of the Arc repressor superfamily. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2004</b> , 1701, 15-23	4	41
77	Coupling factors in macromolecular type-IV secretion machineries. <i>Current Pharmaceutical Design</i> , <b>2004</b> , 10, 1551-65	3.3	83
76	A bacterial conjugation machinery recruited for pathogenesis. <i>Molecular Microbiology</i> , <b>2003</b> , 49, 1253-66	4.1	101
75	Genetic and biochemical characterization of MbeA, the relaxase involved in plasmid ColE1 conjugative mobilization. <i>Molecular Microbiology</i> , <b>2003</b> , 48, 481-93	4.1	26
74	Recognition and processing of the origin of transfer DNA by conjugative relaxase TrwC. <i>Nature Structural and Molecular Biology</i> , <b>2003</b> , 10, 1002-10	17.6	118
73	Conjugative coupling proteins interact with cognate and heterologous VirB10-like proteins while exhibiting specificity for cognate relaxosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 10465-70	11.5	113
72	A bacterial TrwC relaxase domain contains a thermally stable alpha-helical core. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 4226-32	3.5	9
71	Bacterial conjugation: a two-step mechanism for DNA transport. <i>Molecular Microbiology</i> , <b>2002</b> , 45, 1-8	4.1	268
70	Distribution of IS91 family insertion sequences in bacterial genomes: evolutionary implications. <i>FEMS Microbiology Ecology</i> , <b>2002</b> , 42, 303-13	4.3	30
69	Conjugative plasmid protein TrwB, an integral membrane type IV secretion system coupling protein. Detailed structural features and mapping of the active site cleft. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 7556-66	5.4	63
68	Purification and properties of TrwB, a hexameric, ATP-binding integral membrane protein essential for R388 plasmid conjugation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 46456-62	5.4	55
67	TrwD, the hexameric traffic ATPase encoded by plasmid R388, induces membrane destabilization and hemifusion of lipid vesicles. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 1661-8	3.5	19
66	Structure and role of coupling proteins in conjugal DNA transfer. <i>Research in Microbiology</i> , <b>2002</b> , 153, 199-204	4	31
65	Single-stranded DNA intermediates in IS91 rolling-circle transposition. <i>Molecular Microbiology</i> , <b>2001</b> , 39, 494-501	4.1	48
64	Two atypical mobilization proteins are involved in plasmid CloDF13 relaxation. <i>Molecular Microbiology</i> , <b>2001</b> , 39, 1088-99	4.1	42
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3	Plasmid Diversity and Adaptation Analyzed by Massive Sequencing of Escherichia coli Plasmids219-235		2
2	Comparative analysis of MOBQ4plasmids demonstrates that MOBQis acis-acting-enriched relaxase protein family		1
1	In-Depth Resistome Analysis by Targeted Metagenomics		1