Jan Michiels

List of Publications by Year
in descending order

176 papers	10,623 citations	31902 53 h-index	39575 94 g-index
181 all docs	181 docs citations	181 times ranked	11246 citing authors

#	Article	IF	Citations
1	Mutations in respiratory complex I promote antibiotic persistence through alterations in intracellular acidity and protein synthesis. Nature Communications, 2022, 13, 546.	5.8	21
2	Genome-Wide Association Study Reveals Host Factors Affecting Conjugation in Escherichia coli. Microorganisms, 2022, 10, 608.	1.6	3
3	Transcription-coupled DNA repair underlies variation in persister awakening and the emergence of resistance. Cell Reports, 2022, 38, 110427.	2.9	20
4	Assessing persister awakening dynamics following antibiotic treatment in E.Âcoli. STAR Protocols, 2022, 3, 101476.	0.5	1
5	Studying Bacterial Persistence: Established Methods and Current Advances. Methods in Molecular Biology, 2021, 2357, 3-20.	0.4	2
6	Detecting Persister Awakening Determinants. Methods in Molecular Biology, 2021, 2357, 197-208.	0.4	1
7	Population Bottlenecks Strongly Affect the Evolutionary Dynamics of Antibiotic Persistence. Molecular Biology and Evolution, 2021, 38, 3345-3357.	3.5	22
8	Protein Aggregation as a Bacterial Strategy to Survive Antibiotic Treatment. Frontiers in Molecular Biosciences, 2021, 8, 669664.	1.6	29
9	Antibiotic persistence: The power of being a diploid. Current Biology, 2021, 31, R493-R495.	1.8	1
10	Functional analysis of cysteine residues of the Hok/Gef type I toxins in Escherichia coli. FEMS Microbiology Letters, 2021, 368, .	0.7	2
11	Alternative dimerization is required for activity and inhibition of the HEPN ribonuclease RnlA. Nucleic Acids Research, 2021, 49, 7164-7178.	6.5	6
12	The Dynamic Transition of Persistence toward the Viable but Nonculturable State during Stationary Phase Is Driven by Protein Aggregation. MBio, 2021, 12, e0070321.	1.8	42
13	Increasing Solvent Tolerance to Improve Microbial Production of Alcohols, Terpenoids and Aromatics. Microorganisms, 2021, 9, 249.	1.6	8
14	Enrichment of Persister Cells Through Î²-Lactam-Induced Filamentation and Size Separation. Methods in Molecular Biology, 2021, 2357, 63-69.	0.4	1
15	Implant functionalization with mesoporous silica: A promising antibacterial strategy, but does such an implant osseointegrate?. Clinical and Experimental Dental Research, 2021, 7, 502-511.	0.8	9
16	Synthetic reconstruction of extreme high hydrostatic pressure resistance in Escherichia coli. Metabolic Engineering, 2020, 62, 287-297.	3.6	4
17	Ethanol exposure increases mutation rate through error-prone polymerases. Nature Communications, 2020, 11, 3664.	5.8	29
18	Bacteria under antibiotic attack: Different strategies for evolutionary adaptation. PLoS Pathogens, 2020, 16, e1008431.	2.1	45

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19	Desiccation-induced cell damage in bacteria and the relevance for inoculant production. Applied Microbiology and Biotechnology, 2020, 104, 3757-3770.	1.7	32
20	Model-Driven Controlled Alteration of Nanopillar Cap Architecture Reveals its Effects on Bactericidal Activity. Microorganisms, 2020, 8, 186.	1.6	9
21	The <i>Escherichia coli</i> RnlAâ€“RnlB toxinâ€“antitoxin complex: production, characterization and crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 31-39.	0.4	2
22	GTP Binding Is Necessary for the Activation of a Toxic Mutant Isoform of the Essential GTPase ObgE. International Journal of Molecular Sciences, 2020, 21, 16.	1.8	13
23	Image-Based Dynamic Phenotyping Reveals Genetic Determinants of Filamentation-Mediated Î²-Lactam Tolerance. Frontiers in Microbiology, 2020, 11, 374.	1.5	17
24	HokB Monomerization and Membrane Repolarization Control Persister Awakening. Molecular Cell, 2019, 75, 1031-1042.e4.	4.5	57
25	High-throughput time-resolved morphology screening in bacteria reveals phenotypic responses to antibiotics. Communications Biology, 2019, 2, 269.	2.0	35
26	Bacterial Heterogeneity and Antibiotic Survival: Understanding and Combatting Persistence and Heteroresistance. Molecular Cell, 2019, 76, 255-267.	4.5	123
27	Biochemical determinants of ObgEâ€mediated persistence. Molecular Microbiology, 2019, 112, 1593-1608.	1.2	7
28	IAMBEE: a web-service for the identification of adaptive pathways from parallel evolved clonal populations. Nucleic Acids Research, 2019, 47, W151-W157.	6.5	1
29	General Mechanisms Leading to Persister Formation and Awakening. Trends in Genetics, 2019, 35, 401-411.	2.9	126
30	Definitions and guidelines for research on antibiotic persistence. Nature Reviews Microbiology, 2019, 17, 441-448.	13.6	748
31	Antibiotics: Combatting Tolerance To Stop Resistance. MBio, 2019, 10, .	1.8	103
32	Enrichment of persisters enabled by a ÃŸ-lactam-induced filamentation method reveals their stochastic single-cell awakening. Communications Biology, 2019, 2, 426.	2.0	30
33	Bacterial persistence promotes the evolution of antibiotic resistance by increasing survival and mutation rates. ISME Journal, 2019, 13, 1239-1251.	4.4	223
34	Genetic Determinants of Persistence in Escherichia coli. , 2019, , 133-180.		7
35	Fighting bacterial persistence: Current and emerging anti-persister strategies and therapeutics. Drug Resistance Updates, 2018, 38, 12-26.	6.5	167
36	An integrative view of cell cycle control in Escherichia coli. FEMS Microbiology Reviews, 2018, 42, 116-136.	3.9	63

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37	Hitting with a BAM: Selective Killing by Lectin-Like Bacteriocins. MBio, 2018, 9, .	1.8	48
38	The Crabtree Effect Shapes the Saccharomyces cerevisiae Lag Phase during the Switch between Different Carbon Sources. MBio, 2018, 9, .	1.8	46
39	Experimental Design, Population Dynamics, and Diversity in Microbial Experimental Evolution. Microbiology and Molecular Biology Reviews, 2018, 82, .	2.9	132
40	The Putative De-N-acetylase DnpA Contributes to Intracellular and Biofilm-Associated Persistence of Pseudomonas aeruginosa Exposed to Fluoroquinolones. Frontiers in Microbiology, 2018, 9, 1455.	1.5	6
41	1-((2,4-Dichlorophenethyl)Amino)-3-Phenoxypropan-2-ol Kills Pseudomonas aeruginosa through Extensive Membrane Damage. Frontiers in Microbiology, 2018, 9, 129.	1.5	9
42	The Persistence-Inducing Toxin HokB Forms Dynamic Pores That Cause ATP Leakage. MBio, 2018, 9, .	1.8	68
43	Stabbed while Sleeping: Synthetic Retinoid Antibiotics Kill Bacterial Persister Cells. Molecular Cell, 2018, 70, 763-764.	4.5	5
44	CRISPR-FRT targets shared sites in a knock-out collection for off-the-shelf genome editing. Nature Communications, 2018, 9, 2231.	5.8	8
45	<i>In vitro</i> activity of the antiasthmatic drug zafirlukast against the oral pathogens <i>Porphyromonas gingivalis</i> and <i>Streptococcus mutans</i>. FEMS Microbiology Letters, 2017, 364, fnx005.	0.7	15
46	Structural and biochemical analysis of Escherichia coli ObgE, a central regulator of bacterial persistence. Journal of Biological Chemistry, 2017, 292, 5871-5883.	1.6	20
47	New approaches to combat <i>Porphyromonas gingivalis</i> biofilms. Journal of Oral Microbiology, 2017, 9, 1300366.	1.2	36
48	Identification of 1-((2,4-Dichlorophenethyl)Amino)-3-Phenoxypropan-2-ol, a Novel Antibacterial Compound Active against Persisters of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	16
49	Repurposing Toremifene for Treatment of Oral Bacterial Infections. Antimicrobial Agents and Chemotherapy, 2017, 61, .	1.4	25
50	Repurposing AM404 for the treatment of oral infections by <scp><i>Porphyromonas gingivalis</i></scp>. Clinical and Experimental Dental Research, 2017, 3, 69-76.	0.8	8
51	Formation, physiology, ecology, evolution and clinical importance of bacterial persisters. FEMS Microbiology Reviews, 2017, 41, 219-251.	3.9	291
52	Network-Based Identification of Adaptive Pathways in Evolved Ethanol-Tolerant Bacterial Populations. Molecular Biology and Evolution, 2017, 34, 2927-2943.	3.5	16
53	Controlled release of chlorhexidine from a mesoporous silica-containing macroporous titanium dental implant prevents microbial biofilm formation. , 2017, 33, 13-27.		24
54	A Mutant Isoform of ObgE Causes Cell Death by Interfering with Cell Division. Frontiers in Microbiology, 2017, 8, 1193.	1.5	14

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55	Antibacterial Activity of 1-[(2,4-Dichlorophenethyl)amino]-3-Phenoxypropan-2-ol against Antibiotic-Resistant Strains of Diverse Bacterial Pathogens, Biofilms and in Pre-clinical Infection Models. Frontiers in Microbiology, 2017, 8, 2585.	1.5	9
56	Adaptive tuning of mutation rates allows fast response to lethal stress in Escherichia coli. ELife, 2017, 6, .	2.8	86
57	Elucidation of the Mode of Action of a New Antibacterial Compound Active against Staphylococcus aureus and Pseudomonas aeruginosa. PLoS ONE, 2016, 11, e0155139.	1.1	30
58	Selection mosaics differentiate <i>Rhizobium</i>â€"host plant interactions across different nitrogen environments. Oikos, 2016, 125, 1755-1761.	1.2	19
59	Antibacterial activity of a new broadâ€spectrum antibiotic covalently bound to titanium surfaces. Journal of Orthopaedic Research, 2016, 34, 2191-2198.	1.2	29
60	Efficacy of Artilysin Art-175 against Resistant and Persistent Acinetobacter baumannii. Antimicrobial Agents and Chemotherapy, 2016, 60, 3480-3488.	1.4	99
61	<i>In Vitro</i> Emergence of High Persistence upon Periodic Aminoglycoside Challenge in the ESKAPE Pathogens. Antimicrobial Agents and Chemotherapy, 2016, 60, 4630-4637.	1.4	75
62	A Study of SeqA Subcellular Localization in Escherichia Coli using Photo-Activated Localization Microscopy. Biophysical Journal, 2016, 110, 649a.	0.2	0
63	Draft Genome Sequence of Pseudomonas putida BW11M1, a Banana Rhizosphere Isolate with a Diversified Antimicrobial Armamentarium. Genome Announcements, 2016, 4, .	0.8	10
64	Draft genome sequence of Acinetobacter baumannii strain NCTC 13423, a multidrug-resistant clinical isolate. Standards in Genomic Sciences, 2016, 11, 57.	1.5	6
65	Measuring the Viscosity of the Escherichia coli Plasma Membrane Using Molecular Rotors. Biophysical Journal, 2016, 111, 1528-1540.	0.2	75
66	Membrane localization and topology of the DnpA protein control fluoroquinolone tolerance in<i>Pseudomonas aeruginosa</i>. FEMS Microbiology Letters, 2016, 363, fnw184.	0.7	5
67	Molecular mechanisms and clinical implications of bacterial persistence. Drug Resistance Updates, 2016, 29, 76-89.	6.5	136
68	Frequency of antibiotic application drives rapid evolutionary adaptation of Escherichia coli persistence. Nature Microbiology, 2016, 1, 16020.	5.9	210
69	Modulation of the Substitution Pattern of 5-Aryl-2-Aminoimidazoles Allows Fine-Tuning of Their Antibiofilm Activity Spectrum and Toxicity. Antimicrobial Agents and Chemotherapy, 2016, 60, 6483-6497.	1.4	18
70	Reactive oxygen species do not contribute to ObgE*-mediated programmed cell death. Scientific Reports, 2016, 6, 33723.	1.6	14
71	Draft genome sequence of Enterococcus faecium strain LMG 8148. Standards in Genomic Sciences, 2016, 11, 63.	1.5	0
72	Should we develop screens for multi-drug antibiotic tolerance?. Expert Review of Anti-Infective Therapy, 2016, 14, 613-616.	2.0	19

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73	Symbiont abundance is more important than pre-infection partner choice in a Rhizobium â€“ legume mutualism. Systematic and Applied Microbiology, 2016, 39, 345-349.	1.2	11
74	Covalent immobilization of antimicrobial agents on titanium prevents<i>Staphylococcus aureus</i>and<i>Candida albicans</i>colonization and biofilm formation. Journal of Antimicrobial Chemotherapy, 2016, 71, 936-945.	1.3	68
75	Experimental Evolution of Escherichia coli Persister Levels Using Cyclic Antibiotic Treatments. Methods in Molecular Biology, 2016, 1333, 131-143.	0.4	6
76	A Historical Perspective on Bacterial Persistence. Methods in Molecular Biology, 2016, 1333, 3-13.	0.4	19
77	A Whole-Cell-Based High-Throughput Screening Method to Identify Molecules Targeting Pseudomonas aeruginosa Persister Cells. Methods in Molecular Biology, 2016, 1333, 113-120.	0.4	2
78	Bacterial Persistence. Methods in Molecular Biology, 2016, , .	0.4	10
79	The bacterial cell cycle checkpoint protein Obg and its role in programmed cell death. Microbial Cell, 2016, 3, 255-256.	1.4	5
80	Obg and Membrane Depolarization Are Part of a Microbial Bet-Hedging Strategy that Leads to Antibiotic Tolerance. Molecular Cell, 2015, 59, 9-21.	4.5	261
81	Frequency-based haplotype reconstruction from deep sequencing data of bacterial populations. Nucleic Acids Research, 2015, 43, e105-e105.	6.5	45
82	A Single-Amino-Acid Substitution in Obg Activates a New Programmed Cell Death Pathway in Escherichia coli. MBio, 2015, 6, e01935-15.	1.8	22
83	The Role of Biosurfactants in Bacterial Systems. Biological and Medical Physics Series, 2015, , 189-204.	0.3	3
84	Fitness tradeâ€offs explain low levels of persister cells in the opportunistic pathogen <i>PseudomonasÂaeruginosa</i>. Molecular Ecology, 2015, 24, 1572-1583.	2.0	38
85	Novel anti-infective implant substrates: Controlled release of antibiofilm compounds from mesoporous silica-containing macroporous titanium. Colloids and Surfaces B: Biointerfaces, 2015, 126, 481-488.	2.5	25
86	Fungal Î²-1,3-Glucan Increases Ofloxacin Tolerance of Escherichia coli in a Polymicrobial E. coli/Candida albicans Biofilm. Antimicrobial Agents and Chemotherapy, 2015, 59, 3052-3058.	1.4	83
87	A study of SeqA subcellular localization in Escherichia coli using photo-activated localization microscopy. Faraday Discussions, 2015, 184, 425-450.	1.6	9
88	Effects of local environmental variables and geographical location on the genetic diversity and composition of Rhizobium leguminosarum nodulating Vicia cracca populations. Soil Biology and Biochemistry, 2015, 90, 71-79.	4.2	28
89	Membrane depolarization-triggered responsive diversification leads to antibiotic tolerance. Microbial Cell, 2015, 2, 299-301.	1.4	8
90	COLOMBOS v2.0: an ever expanding collection of bacterial expression compendia: Table 1.. Nucleic Acids Research, 2014, 42, D649-D653.	6.5	38

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91	Bacterial Obg proteins: GTPases at the nexus of protein and DNA synthesis. Critical Reviews in Microbiology, 2014, 40, 207-224.	2.7	54
92	Effects of co-inoculation of native Rhizobium and Pseudomonas strains on growth parameters and yield of two contrasting Phaseolus vulgaris L. genotypes under Cuban soil conditions. European Journal of Soil Biology, 2014, 62, 105-112.	1.4	67
93	Art-175 Is a Highly Efficient Antibacterial against Multidrug-Resistant Strains and Persisters of Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2014, 58, 3774-3784.	1.4	152
94	Excited state dynamics of the photoconvertible fluorescent protein Kaede revealed by ultrafast spectroscopy. Photochemical and Photobiological Sciences, 2014, 13, 867-874.	1.6	14
95	Oral Administration of the Broad-Spectrum Antibiofilm Compound Toremifene Inhibits Candida albicans and Staphylococcus aureus Biofilm Formation <i>In Vivo</i>. Antimicrobial Agents and Chemotherapy, 2014, 58, 7606-7610.	1.4	22
96	Population structure of root nodulating Rhizobium leguminosarum in Vicia cracca populations at local to regional geographic scales. Systematic and Applied Microbiology, 2014, 37, 613-621.	1.2	33
97	Identification and characterization of an anti-pseudomonal dichlorocarbazol derivative displaying anti-biofilm activity. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5404-5408.	1.0	16
98	The Fungal Aroma Gene ATF1 Promotes Dispersal of Yeast Cells through Insect Vectors. Cell Reports, 2014, 9, 425-432.	2.9	163
99	Genomic analysis of cyclic-di-GMP-related genes in rhizobial type strains and functional analysis in Rhizobium etli. Applied Microbiology and Biotechnology, 2014, 98, 4589-4602.	1.7	23
100	Derivatives of the Mouse Cathelicidin-Related Antimicrobial Peptide (CRAMP) Inhibit Fungal and Bacterial Biofilm Formation. Antimicrobial Agents and Chemotherapy, 2014, 58, 5395-5404.	1.4	55
101	A putative de-<i>N</i>-acetylase of the PIG-L superfamily affects fluoroquinolone tolerance in<i>Pseudomonas aeruginosa</i>. Pathogens and Disease, 2014, 71, 39-54.	0.8	25
102	Revealing the Excited-State Dynamics of the Fluorescent Protein Dendra2. Journal of Physical Chemistry B, 2013, 117, 2300-2313.	1.2	21
103	Canonical and nonâ€canonical EcfG sigma factors control the general stress response in <i>Rhizobium etli</i>. MicrobiologyOpen, 2013, 2, 976-987.	1.2	25
104	Functional divergence of gene duplicates through ectopic recombination. EMBO Reports, 2012, 13, 1145-1151.	2.0	32
105	The <i>Escherichia</i>â€ƒ<i>coli</i> GTPase ObgE modulates hydroxyl radical levels in response to DNA replication fork arrest. FEBS Journal, 2012, 279, 3692-3704.	2.2	9
106	New-found fundamentals of bacterial persistence. Trends in Microbiology, 2012, 20, 577-585.	3.5	126
107	Surface tension gradient control of bacterial swarming in colonies of Pseudomonas aeruginosa. Soft Matter, 2012, 8, 70-76.	1.2	57
108	Spectroscopic characterization of Venus at the single molecule level. Photochemical and Photobiological Sciences, 2012, 11, 358-363.	1.6	9

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109	Pseudomonas aeruginosa fosfomycin resistance mechanisms affect non-inherited fluoroquinolone tolerance. Journal of Medical Microbiology, 2011, 60, 329-336.	0.7	33
110	Role of persister cells in chronic infections: clinical relevance and perspectives on anti-persister therapies. Journal of Medical Microbiology, 2011, 60, 699-709.	0.7	356
111	Stress response regulators identified through genome-wide transcriptome analysis of the (p)ppGpp-dependent response in Rhizobium etli. Genome Biology, 2011, 12, R17.	13.9	74
112	Phenotypic and Genome-Wide Analysis of an Antibiotic-Resistant Small Colony Variant (SCV) of Pseudomonas aeruginosa. PLoS ONE, 2011, 6, e29276.	1.1	81
113	A Comparative Transcriptome Analysis of <i>Rhizobium etli</i> Bacteroids: Specific Gene Expression During Symbiotic Nongrowth. Molecular Plant-Microbe Interactions, 2011, 24, 1553-1561.	1.4	28
114	Rational Design of Photoconvertible and Biphotochromic Fluorescent Proteins for Advanced Microscopy Applications. Chemistry and Biology, 2011, 18, 1241-1251.	6.2	96
115	The Universally Conserved Prokaryotic GTPases. Microbiology and Molecular Biology Reviews, 2011, 75, 507-542.	2.9	175
116	Genome Sequence of Rhizobium etli CNPAF512, a Nitrogen-Fixing Symbiont Isolated from Bean Root Nodules in Brazil. Journal of Bacteriology, 2011, 193, 3158-3159.	1.0	10
117	Quantitative PCR assays to enumerate Rhizobium leguminosarum strains in soil also target non viable cells and overestimate those detected by the plant infection method. Soil Biology and Biochemistry, 2010, 42, 2342-2344.	4.2	2
118	Genome-wide detection of predicted non-coding RNAs in Rhizobium etli expressed during free-living and host-associated growth using a high-resolution tiling array. BMC Genomics, 2010, 11, 53.	1.2	42
119	Rhizobium etli HrpW is a pectin-degrading enzyme and differs from phytopathogenic homologues in enzymically crucial tryptophan and glycine residues. Microbiology (United Kingdom), 2009, 155, 3045-3054.	0.7	22
120	Indole-3-acetic acid-regulated genes in<i>Rhizobium etli</i>CNPAF512. FEMS Microbiology Letters, 2009, 291, 195-200.	0.7	53
121	Novel persistence genes in<i>Pseudomonas aeruginosa</i>identified by high-throughput screening. FEMS Microbiology Letters, 2009, 297, 73-79.	0.7	166
122	Identification of novel persistence genes in Pseudomonas aeruginosa in the combat against emerging antimicrobial resistance. Communications in Agricultural and Applied Biological Sciences, 2009, 74, 51-6.	0.0	1
123	Physiological and genetic analysis of root responsiveness to auxin-producing plant growth-promoting bacteria in common bean (Phaseolus vulgaris L.). Plant and Soil, 2008, 302, 149-161.	1.8	169
124	Genetic Determinants of Swarming in Rhizobium etli. Microbial Ecology, 2008, 55, 54-64.	1.4	28
125	Rhizobial secreted proteins as determinants of host specificity in the rhizobiumÃ¢Â€Â“legume symbiosis. FEMS Microbiology Letters, 2008, 285, 1-9.	0.7	139
126	Pleiotropic effects of a rel mutation on stress survival of Rhizobium etli CNPAF512. BMC Microbiology, 2008, 8, 219.	1.3	18

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127	Living on a surface: swarming and biofilm formation. Trends in Microbiology, 2008, 16, 496-506.	3.5	402
128	Quorum Sensing in Bacteria-Plant Interactions. Soil Biology, 2008, , 265-289.	0.6	17
129	Effects of plant growth-promoting rhizobacteria on nodulation of Phaseolus vulgaris L. are dependent on plant P nutrition. , 2007, , 341-351.		6
130	Identification of a novel glyoxylate reductase supports phylogeny-based enzymatic substrate specificity prediction. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1092-1098.	1.1	10
131	TheRhizobium etli optoperon is required for symbiosis and stress resistance. Environmental Microbiology, 2007, 9, 1665-1674.	1.8	7
132	Inactivation of thenodHgene inSinorhizobiumsp. BR816 enhances symbiosis withPhaseolus vulgarisL.. FEMS Microbiology Letters, 2007, 266, 210-217.	0.7	4
133	Interaction of an IHF-like protein with the Rhizobium etli nifA promoter. FEMS Microbiology Letters, 2007, 271, 20-26.	0.7	6
134	Effects of plant growth-promoting rhizobacteria on nodulation of Phaseolus vulgaris L. are dependent on plant P nutrition. European Journal of Plant Pathology, 2007, 119, 341-351.	0.8	56
135	New horizons for (p)ppGpp in bacterial and plant physiology. Trends in Microbiology, 2006, 14, 45-54.	3.5	210
136	Quorum signal molecules as biosurfactants affecting swarming in Rhizobium etli. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14965-14970.	3.3	135
137	Defence of Rhizobium etli bacteroids against oxidative stress involves a complexly regulated atypical 2-Cys peroxiredoxin. Molecular Microbiology, 2005, 55, 1207-1221.	1.2	59
138	Effective Symbiosis between Rhizobium etli and Phaseolus vulgaris Requires the Alarmone ppGpp. Journal of Bacteriology, 2005, 187, 5460-5469.	1.0	53
139	Bacterial Endocytic Systems in Plants and Animals: Ca2+as a Common Theme?. Critical Reviews in Plant Sciences, 2005, 24, 283-308.	2.7	7
140	Evidence for the Isomerization and Decarboxylation in the Photoconversion of the Red Fluorescent Protein DsRed. Journal of the American Chemical Society, 2005, 127, 8977-8984.	6.6	82
141	Regulatory Role of Rhizobium etli CNPAF512 fnrN during Symbiosis. Applied and Environmental Microbiology, 2004, 70, 1287-1296.	1.4	16
142	Screening genomes of Gram-positive bacteria for double-glycine-motif-containing peptides. Microbiology (United Kingdom), 2004, 150, 1121-1126.	0.7	37
143	Quorum sensing and swarming migration in bacteria. FEMS Microbiology Reviews, 2004, 28, 261-289.	3.9	488
144	Peptide signal molecules and bacteriocins in Gram-negative bacteria: a genome-wide in silico screening for peptides containing a double-glycine leader sequence and their cognate transporters. Peptides, 2004, 25, 1425-1440.	1.2	108

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145	Single-Molecule Surface Enhanced Resonance Raman Spectroscopy of the Enhanced Green Fluorescent Protein. Journal of the American Chemical Society, 2003, 125, 8446-8447.	6.6	153
146	Excited state processes in individual multichromophoric systems. , 2003, 4962, 1.		0
147	Three Genes Encoding for Putative Methyl- and Acetyltransferases Map Adjacent to the wzm and wzt Genes and Are Essential for O-Antigen Biosynthesis in Rhizobium etli CE3. Molecular Plant-Microbe Interactions, 2003, 16, 1085-1093.	1.4	14
148	The cin Quorum Sensing Locus of Rhizobium etli CNPAF512 Affects Growth and Symbiotic Nitrogen Fixation. Journal of Biological Chemistry, 2002, 277, 462-468.	1.6	120
149	Prediction and overview of the RpoN-regulon in closely related species of the Rhizobiales. Genome Biology, 2002, 3, research0076.1.	13.9	62
150	Resonance Energy Transfer in a Calcium Concentration-Dependent Cameleon Protein. Biophysical Journal, 2002, 83, 3499-3506.	0.2	36
151	The functions of Ca2+ in bacteria: a role for EF-hand proteins?. Trends in Microbiology, 2002, 10, 87-93.	3.5	187
152	The Rhizobium etli gene iscN is highly expressed in bacteroids and required for nitrogen fixation. Molecular Genetics and Genomics, 2002, 267, 820-828.	1.0	28
153	Processing and export of peptide pheromones and bacteriocins in Gram-negative bacteria. Trends in Microbiology, 2001, 9, 164-168.	3.5	96
154	Excited-State Dynamics in the Enhanced Green Fluorescent Protein Mutant Probed by Picosecond Time-Resolved Single Photon Counting Spectroscopy. Journal of Physical Chemistry B, 2001, 105, 4999-5006.	1.2	100
155	Stable RK2-Derived Cloning Vectors for the Analysis of Gene Expression and Gene Function in Gram-Negative Bacteria. Molecular Plant-Microbe Interactions, 2001, 14, 426-430.	1.4	119
156	Collective effects in individual oligomers of the red fluorescent coral protein DsRed. Chemical Physics Letters, 2001, 336, 415-423.	1.2	42
157	Identification of different emitting species in the red fluorescent protein DsRed by means of ensemble and single-molecule spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14398-14403.	3.3	151
158	Symbiosis-specific expression of Rhizobium etli casA encoding a secreted calmodulin-related protein. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11114-11119.	3.3	53
159	Bi-functional gfp-and gusA-containing mini-Tn5 transposon derivatives for combined gene expression and bacterial localization studies. Journal of Microbiological Methods, 1999, 35, 85-92.	0.7	122
160	Phaseolus vulgaris is a non-selective host for nodulation. FEMS Microbiology Ecology, 1998, 26, 193-205.	1.3	122
161	Corrigendum to Ã¢Â€ÂœPhaseolus vulgaris is a non-selective host for nodulationÃ¢Â€Â• FEMS Microbiology Ecology, 1998, 27, 301-301.	1.3	1
162	The Rhizobium etli FixL protein differs in structure from other known FixL proteins. Molecular Genetics and Genomics, 1998, 257, 576-580.	2.4	16

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163	Sequence Analysis of theRhizobium etliRibose Kinase GenerbsKand its Phylogenetic Position. DNA Sequence, 1998, 9, 317-321.	0.7	0
164	Differential Regulation of <i>Rhizobium etli rpoN2</i> Gene Expression during Symbiosis and Free-Living Growth. Journal of Bacteriology, 1998, 180, 3620-3628.	1.0	64
165	<i>luxI</i> - and <i>luxR</i> -Homologous Genes of <i>Rhizobium etli</i> CNPAF512 Contribute to Synthesis of Autoinducer Molecules and Nodulation of <i>Phaseolus vulgaris</i>. Journal of Bacteriology, 1998, 180, 815-821.	1.0	108
166	The <i>Rhizobium etli rpoN</i> Locus: DNA Sequence Analysis and Phenotypical Characterization of <i>rpoN</i> , <i>ptsN</i> , and <i>ptsA</i> Mutants. Journal of Bacteriology, 1998, 180, 1729-1740.	1.0	75
167	Structural and functional analysis of the fixLJ genes of Rhizobium leguminosarum biovar phaseoli CNPAF512. Molecular Genetics and Genomics, 1995, 249, 117-126.	2.4	60
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