

Everett Greenberg

List of Publications by Year in descending order

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122
papers

17,069
citations

23500

58
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17055

122
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131
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131
docs citations

131
times ranked

13047
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Gene Expression by Cell-to-Cell Communication: Acyl-Homoserine Lactone Quorum Sensing. <i>Annual Review of Genetics</i> , 2001, 35, 439-468.	3.2	1,251
2	CENSUS AND CONSENSUS IN BACTERIAL ECOSYSTEMS: The LuxR-LuxI Family of Quorum-Sensing Transcriptional Regulators. <i>Annual Review of Microbiology</i> , 1996, 50, 727-751.	2.9	1,095
3	Listening in on bacteria: acyl-homoserine lactone signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 685-695.	16.1	964
4	A component of innate immunity prevents bacterial biofilm development. <i>Nature</i> , 2002, 417, 552-555.	13.7	923
5	Progress in and promise of bacterial quorum sensing research. <i>Nature</i> , 2017, 551, 313-320.	13.7	880
6	From The Cover: Iron and <i>Pseudomonas aeruginosa</i> biofilm formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11076-11081.	3.3	714
7	A network of networks: Quorum-sensing gene regulation in <i>Pseudomonas aeruginosa</i> . <i>International Journal of Medical Microbiology</i> , 2006, 296, 73-81.	1.5	563
8	Quorum Sensing in <i>Staphylococcus aureus</i> Biofilms. <i>Journal of Bacteriology</i> , 2004, 186, 1838-1850.	1.0	554
9	The superficial life of microbes. <i>Nature</i> , 2006, 441, 300-302.	13.7	507
10	Acyl-Homoserine Lactone Quorum Sensing: From Evolution to Application. <i>Annual Review of Microbiology</i> , 2013, 67, 43-63.	2.9	504
11	Chelator-Induced Dispersal and Killing of <i>Pseudomonas aeruginosa</i> Cells in a Biofilm. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2064-2069.	1.4	414
12	Bacterial Quorum Sensing and Metabolic Incentives to Cooperate. <i>Science</i> , 2012, 338, 264-266.	6.0	304
13	<i>Pseudomonas aeruginosa</i> Biofilms Exposed to Imipenem Exhibit Changes in Global Gene Expression and β -Lactamase and Alginate Production. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 1175-1187.	1.4	302
14	Self perception in bacteria: quorum sensing with acylated homoserine lactones. <i>Current Opinion in Microbiology</i> , 1998, 1, 183-189.	2.3	281
15	Novel <i>Pseudomonas aeruginosa</i> Quorum-Sensing Inhibitors Identified in an Ultra-High-Throughput Screen. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 3674-3679.	1.4	265
16	The Single-Nucleotide Resolution Transcriptome of <i>Pseudomonas aeruginosa</i> Grown in Body Temperature. <i>PLoS Pathogens</i> , 2012, 8, e1002945.	2.1	240
17	The potential of desferrioxamine-gallium as an anti- <i>Pseudomonas</i> therapeutic agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16761-16766.	3.3	238
18	LasR Variant Cystic Fibrosis Isolates Reveal an Adaptable Quorum-Sensing Hierarchy in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2016, 7, .	1.8	219

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19	Activity of Abundant Antimicrobials of the Human Airway. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 872-879.	1.4	211
20	Activity of purified QscR, a <i>Pseudomonas aeruginosa</i> quorum-sensing transcription factor. Molecular Microbiology, 2006, 59, 602-609.	1.2	210
21	Quorum sensing and policing of <i>Pseudomonas aeruginosa</i> social cheaters. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2187-2191.	3.3	209
22	Global position analysis of the <i>Pseudomonas aeruginosa</i> quorum-sensing transcription factor LasR. Molecular Microbiology, 2009, 73, 1072-1085.	1.2	207
23	Genetic Determinants of Self Identity and Social Recognition in Bacteria. Science, 2008, 321, 256-259.	6.0	199
24	Evolution of the <i>Pseudomonas aeruginosa</i> quorum-sensing hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7027-7032.	3.3	197
25	Human and murine paraoxonase 1 are host modulators of <i>Pseudomonas aeruginosa</i> quorum-sensing. FEMS Microbiology Letters, 2005, 253, 29-37.	0.7	196
26	A Distinct QscR Regulon in the <i>Pseudomonas aeruginosa</i> Quorum-Sensing Circuit. Journal of Bacteriology, 2006, 188, 3365-3370.	1.0	195
27	The <i>Vibrio fischeri</i> quorum-sensing systems <i>ain</i> and <i>lux</i> sequentially induce luminescence gene expression and are important for persistence in the squid host. Molecular Microbiology, 2003, 50, 319-331.	1.2	182
28	Influence of Quorum Sensing and Iron on Twitching Motility and Biofilm Formation in <i>Pseudomonas aeruginosa</i> . Journal of Bacteriology, 2008, 190, 662-671.	1.0	173
29	Hfq-dependent alterations of the transcriptome profile and effects on quorum sensing in <i>Pseudomonas aeruginosa</i> . Molecular Microbiology, 2006, 59, 1542-1558.	1.2	165
30	Early activation of quorum sensing in <i>Pseudomonas aeruginosa</i> reveals the architecture of a complex regulon. BMC Genomics, 2007, 8, 287.	1.2	142
31	Increase in Rhamnolipid Synthesis under Iron-Limiting Conditions Influences Surface Motility and Biofilm Formation in <i>Pseudomonas aeruginosa</i> . Journal of Bacteriology, 2010, 192, 2973-2980.	1.0	140
32	RsaL provides quorum sensing homeostasis and functions as a global regulator of gene expression in <i>Pseudomonas aeruginosa</i> . Molecular Microbiology, 2007, 66, 1557-1565.	1.2	130
33	Quorum-Sensing Control of Antibiotic Synthesis in <i>Burkholderia thailandensis</i> . Journal of Bacteriology, 2009, 191, 3909-3918.	1.0	129
34	A structurally unrelated mimic of a <i>Pseudomonas aeruginosa</i> acyl-homoserine lactone quorum-sensing signal. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16948-16952.	3.3	125
35	<i>Vibrio parahaemolyticus</i> ScrC Modulates Cyclic Dimeric GMP Regulation of Gene Expression Relevant to Growth on Surfaces. Journal of Bacteriology, 2008, 190, 851-860.	1.0	115
36	Quorum-Sensing-Regulated Bactobolin Production by <i>Burkholderia thailandensis</i> E264. Organic Letters, 2010, 12, 716-719.	2.4	114

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37	Aryl-homoserine lactone quorum sensing in stem-nodulating photosynthetic bradyrhizobia. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7183-7188.	3.3	111
38	Bacterial quorum sensing, cooperativity, and anticipation of stationary-phase stress. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19775-19780.	3.3	109
39	Crystal structure of QscR, a <i>Pseudomonas aeruginosa</i> quorum sensing signal receptor. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15763-15768.	3.3	108
40	Isovaleryl-homoserine lactone, an unusual branched-chain quorum-sensing signal from the soybean symbiont <i>Bradyrhizobium japonicum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16765-16770.	3.3	104
41	Strain-dependent diversity in the <i>Pseudomonas aeruginosa</i> quorum-sensing regulon. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2823-31.	3.3	104
42	Social cheating in a <i>Pseudomonas aeruginosa</i> quorum-sensing variant. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7021-7026.	3.3	104
43	[3] Quorum sensing signals in development of <i>Pseudomonas aeruginosa</i> biofilms. Methods in Enzymology, 1999, 310, 43-55.	0.4	101
44	Mutational Analysis of <i>Burkholderia thailandensis</i> Quorum Sensing and Self-Aggregation. Journal of Bacteriology, 2009, 191, 5901-5909.	1.0	88
45	Bacterial communication and group behavior. Journal of Clinical Investigation, 2003, 112, 1288-1290.	3.9	86
46	Bacterial communication: Tiny teamwork. Nature, 2003, 424, 134-134.	13.7	84
47	Acyl-homoserine lactone-dependent eavesdropping promotes competition in a laboratory co-culture model. ISME Journal, 2012, 6, 2219-2228.	4.4	83
48	Transcriptome Analysis of the <i>Vibrio fischeri</i> LuxR-LuxI Regulon. Journal of Bacteriology, 2007, 189, 8387-8391.	1.0	80
49	Global Analysis of the <i>Burkholderia thailandensis</i> Quorum Sensing-Controlled Regulon. Journal of Bacteriology, 2014, 196, 1412-1424.	1.0	79
50	A high-throughput screen for quorum-sensing inhibitors that target acyl-homoserine lactone synthases. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13815-13820.	3.3	77
51	Quorum Sensing Signal Selectivity and the Potential for Interspecies Cross Talk. MBio, 2019, 10, .	1.8	77
52	Quorum sensing control of Type VI secretion factors restricts the proliferation of quorum-sensing mutants. ELife, 2016, 5, .	2.8	75
53	Generation of Virulence Factor Variants in <i>Staphylococcus aureus</i> Biofilms. Journal of Bacteriology, 2007, 189, 7961-7967.	1.0	70
54	Contribution of the RsaL global regulator to <i>Pseudomonas aeruginosa</i> virulence and biofilm formation. FEMS Microbiology Letters, 2009, 301, 210-217.	0.7	69

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55	Enhancement of Antimicrobial Activity against <i>Pseudomonas aeruginosa</i> by Coadministration of G10KHc and Tobramycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 3833-3838.	1.4	68
56	Synthetic ligands that activate and inhibit a quorum-sensing regulator in <i>Pseudomonas aeruginosa</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3072-3075.	1.0	67
57	LuxR- and LuxI-Type Quorum-Sensing Circuits Are Prevalent in Members of the <i>Populus deltoides</i> Microbiome. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5745-5752.	1.4	66
58	A Mutational Analysis Defines <i>Vibrio fischeri</i> LuxR Binding Sites. <i>Journal of Bacteriology</i> , 2008, 190, 4392-4397.	1.0	62
59	Sociality in <i>Escherichia coli</i> : Enterochelin Is a Private Good at Low Cell Density and Can Be Shared at High Cell Density. <i>Journal of Bacteriology</i> , 2015, 197, 2122-2128.	1.0	61
60	Pump up the versatility. <i>Nature</i> , 2000, 406, 947-948.	13.7	58
61	Molecular basis for the substrate specificity of quorum signal synthases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9092-9097.	3.3	58
62	Rapid Evolution of Culture-Impaired Bacteria during Adaptation to Biofilm Growth. <i>Cell Reports</i> , 2014, 6, 293-300.	2.9	57
63	LuxR homolog-independent gene regulation by acyl-homoserine lactones in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10673-10678.	3.3	56
64	Anaerobic <i>p</i> -Coumarate Degradation by <i>Rhodopseudomonas palustris</i> and Identification of CouR, a MarR Repressor Protein That Binds <i>p</i> -Coumaroyl Coenzyme A. <i>Journal of Bacteriology</i> , 2012, 194, 1960-1967.	1.0	56
65	The two-component response regulator PprB modulates quorum-sensing signal production and global gene expression in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2005, 56, 1287-1301.	1.2	55
66	Acyl-Homoserine Lactone Binding to and Stability of the Orphan <i>Pseudomonas aeruginosa</i> Quorum-Sensing Signal Receptor QscR. <i>Journal of Bacteriology</i> , 2011, 193, 421-428.	1.0	54
67	The <i>Pseudomonas aeruginosa</i> Orphan Quorum Sensing Signal Receptor QscR Regulates Global Quorum Sensing Gene Expression by Activating a Single Linked Operon. <i>MBio</i> , 2018, 9, .	1.8	53
68	Role of Flagella in Virulence of the Coral Pathogen <i>Vibrio coralliilyticus</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5704-5707.	1.4	51
69	Hydrogel Effects Rapid Biofilm Debridement with ex situ Contact-Kill to Eliminate Multidrug Resistant Bacteria in vivo. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20356-20367.	4.0	51
70	Linear osmoregulated periplasmic glucans are encoded by the <i>opgGH</i> locus of <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2007, 153, 3255-3263.	0.7	50
71	Bacterial communication and group behavior. <i>Journal of Clinical Investigation</i> , 2003, 112, 1288-1290.	3.9	50
72	Octanoyl-Homoserine Lactone Is the Cognate Signal for <i>Burkholderia mallei</i> BmaR1-Bmal1 Quorum Sensing. <i>Journal of Bacteriology</i> , 2007, 189, 5034-5040.	1.0	49

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73	Bactobolin A Binds to a Site on the 70S Ribosome Distinct from Previously Seen Antibiotics. <i>Journal of Molecular Biology</i> , 2015, 427, 753-755.	2.0	48
74	Cross-Species Comparison of the <i>Burkholderia pseudomallei</i> , <i>Burkholderia thailandensis</i> , and <i>Burkholderia mallei</i> Quorum-Sensing Regulons. <i>Journal of Bacteriology</i> , 2014, 196, 3862-3871.	1.0	47
75	Activity of the <i>Rhodopseudomonas palustris</i> p-Coumaroyl-Homoserine Lactone-Responsive Transcription Factor RpaR. <i>Journal of Bacteriology</i> , 2011, 193, 2598-2607.	1.0	45
76	Bactobolin Resistance Is Conferred by Mutations in the L2 Ribosomal Protein. <i>MBio</i> , 2012, 3, .	1.8	44
77	An evolving perspective on the <i>Pseudomonas aeruginosa</i> orphan quorum sensing regulator Qscr. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 152.	1.8	44
78	Sources of Diversity in Bactobolin Biosynthesis by <i>Burkholderia thailandensis</i> E264. <i>Organic Letters</i> , 2011, 13, 3048-3051.	2.4	42
79	Territoriality in <i>Proteus</i> : Advertisement and Aggression. <i>Chemical Reviews</i> , 2011, 111, 188-194.	23.0	40
80	A <i>rhl</i> 5' UTR-Derived sRNA Regulates RhlR-Dependent Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2019, 10, .	1.8	40
81	Quorum Sensing Influences <i>Burkholderia thailandensis</i> Biofilm Development and Matrix Production. <i>Journal of Bacteriology</i> , 2016, 198, 2643-2650.	1.0	39
82	The Genetic Basis for the Commitment to Chronic versus Acute Infection in <i>Pseudomonas aeruginosa</i> . <i>Molecular Cell</i> , 2004, 16, 497-498.	4.5	38
83	The <i>Burkholderia mallei</i> BmaR3-BmaI3 Quorum-Sensing System Produces and Responds to <i>N</i> -3-Hydroxy-Octanoyl Homoserine Lactone. <i>Journal of Bacteriology</i> , 2008, 190, 5137-5141.	1.0	38
84	An aryl-homoserine lactone quorum-sensing signal produced by a dimorphic prosthecate bacterium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 7587-7592.	3.3	35
85	A <i>Burkholderia thailandensis</i> Acyl-Homoserine Lactone-Independent Orphan LuxR Homolog That Activates Production of the Cytotoxin Malleilactone. <i>Journal of Bacteriology</i> , 2015, 197, 3456-3462.	1.0	34
86	BadR and BadM Proteins Transcriptionally Regulate Two Operons Needed for Anaerobic Benzoate Degradation by <i>Rhodopseudomonas palustris</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 4253-4262.	1.4	34
87	A plant-responsive bacterial-signaling system senses an ethanolamine derivative. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9785-9790.	3.3	33
88	Microwave Synthesis and Evaluation of Phenacylhomoserine Lactones as Anticancer Compounds that Minimally Activate Quorum Sensing Pathways in <i>Pseudomonas aeruginosa</i> . <i>Journal of Medicinal Chemistry</i> , 2009, 52, 1569-1575.	2.9	31
89	Reversible Signal Binding by the <i>Pseudomonas aeruginosa</i> Quorum-Sensing Signal Receptor LasR. <i>MBio</i> , 2011, 2, e00011-11.	1.8	31
90	Designer broad-spectrum polyimidazolium antibiotics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31376-31385.	3.3	31

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91	Quorum Sensing in a Methane-Oxidizing Bacterium. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	29
92	Delays in <i>Pseudomonas aeruginosa</i> quorum-controlled gene expression are conditional. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9008-9013.	3.3	28
93	Plan B for quorum sensing. <i>Nature Chemical Biology</i> , 2013, 9, 292-293.	3.9	28
94	Identity Gene Expression in <i>Proteus mirabilis</i> . <i>Journal of Bacteriology</i> , 2011, 193, 3286-3292.	1.0	25
95	Evolution of Acyl-Substrate Recognition by a Family of Acyl-Homoserine Lactone Synthases. <i>PLoS ONE</i> , 2014, 9, e112464.	1.1	25
96	<i>luxR</i> Homolog-Linked Biosynthetic Gene Clusters in <i>Proteobacteria</i> . <i>MSystems</i> , 2018, 3, .	1.7	25
97	Primary radiation therapy in the treatment of squamous cell carcinoma of the soft palate. <i>Cancer</i> , 1989, 63, 2442-2445.	2.0	24
98	Virulence of <i>Burkholderia mallei</i> Quorum-Sensing Mutants. <i>Infection and Immunity</i> , 2013, 81, 1471-1478.	1.0	24
99	A <i>LuxR</i> Homolog in a Cottonwood Tree Endophyte That Activates Gene Expression in Response to a Plant Signal or Specific Peptides. <i>MBio</i> , 2016, 7, .	1.8	23
100	Positive Autoregulation of an Acyl-Homoserine Lactone Quorum-Sensing Circuit Synchronizes the Population Response. <i>MBio</i> , 2017, 8, .	1.8	23
101	Tundrenone: An Atypical Secondary Metabolite from Bacteria with Highly Restricted Primary Metabolism. <i>Journal of the American Chemical Society</i> , 2018, 140, 2002-2006.	6.6	23
102	Antisense RNA that affects <i>Rhodopseudomonas palustris</i> quorum-sensing signal receptor expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12141-12146.	3.3	19
103	Rifampin as a selective agent for the enumeration and isolation of spirochetes from salt marsh habitats. <i>Current Microbiology</i> , 1981, 5, 303-306.	1.0	18
104	The basis of silver staining of bacterial lipopolysaccharides in polyacrylamide gels. <i>Current Microbiology</i> , 1986, 13, 29-31.	1.0	18
105	Evolution of the Quorum Sensing Regulon in Cooperating Populations of <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2022, 13, e0016122.	1.8	17
106	Gene Duplication in <i>Pseudomonas aeruginosa</i> Improves Growth on Adenosine. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	15
107	Virulence Factor Identification in the Banana Pathogen <i>Dickeya zeae</i> MS2. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	15
108	The Chemistry and Biology of Bactobolin: A 10-Year Collaboration with Natural Product Chemist Extraordinaire Jon Clardy. <i>Journal of Natural Products</i> , 2020, 83, 738-743.	1.5	14

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109	Modulation of <i>Pseudomonas aeruginosa</i> Quorum Sensing by Glutathione. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	12
110	A Glycosylated Cationic Block Poly(α -peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. <i>Angewandte Chemie</i> , 2020, 132, 6886-6893.	1.6	11
111	Interspecies Chemical Signaling in a Methane-Oxidizing Bacterial Community. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	10
112	A covariation analysis reveals elements of selectivity in quorum sensing systems. <i>ELife</i> , 2021, 10, .	2.8	9
113	“Hot Stuff”: The Many Uses of a Radiolabel Assay in Detecting Acyl-Homoserine Lactone Quorum-Sensing Signals. <i>Methods in Molecular Biology</i> , 2018, 1673, 35-47.	0.4	8
114	Dynamics of cheater invasion in a cooperating population of <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2019, 9, 10190.	1.6	7
115	The <i>Pseudomonas aeruginosa</i> whole genome sequence: A 20th anniversary celebration. <i>Advances in Microbial Physiology</i> , 2021, 79, 25-88.	1.0	7
116	The intracellular polyglucose storage granules of <i>Spirochaeta aurantia</i> . <i>Archives of Microbiology</i> , 1988, 150, 289-295.	1.0	6
117	Structural basis for a bacterial Pip system plant effector recognition protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	3
118	Quorum Sensing in <i>Burkholderia</i> . , 0, , 40-57.		3
119	Ironing Out the Biofilm Problem: The Role of Iron in Biofilm Formation. <i>Springer Series on Biofilms</i> , 2008, , 141-156.	0.0	2
120	Woody Hastings: 65 years of fun. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14964-14965.	3.3	2
121	<i>Pseudomonas aeruginosa</i> quorum sensing: A target for anti-pathogenic drug discovery. <i>Pharmacotherapy Library</i> , 2002, , 207-212.	0.1	1
122	AHL Signals Induce Rubrifacine Production in a <i>brul</i> Mutant of <i>Brenneria rubrifaciens</i> . <i>Phytopathology</i> , 2012, 102, 195-203.	1.1	1