

Rosemary J Redfield

List of Publications by Year in descending order

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63
papers

3,908
citations

109321

35
h-index

133252

59
g-index

67
all docs

67
docs citations

67
times ranked

3062
citing authors

#	ARTICLE	IF	CITATIONS
1	Is quorum sensing a side effect of diffusion sensing?. Trends in Microbiology, 2002, 10, 365-370.	7.7	483
2	Do bacteria have sex?. Nature Reviews Genetics, 2001, 2, 634-639.	16.3	213
3	Natural Competence and the Evolution of DNA Uptake Specificity. Journal of Bacteriology, 2014, 196, 1471-1483.	2.2	202
4	[14] Genetic systems in Haemophilus influenzae. Methods in Enzymology, 1991, 204, 321-342.	1.0	195
5	The hotspot conversion paradox and the evolution of meiotic recombination. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 8058-8063.	7.1	177
6	Genes for Breakfast: The Have-Your-Cake and-Eat-It-Too of Bacterial Transformation. Journal of Heredity, 1993, 84, 400-404.	2.4	165
7	Evolution of competence and DNA uptake specificity in the Pasteurellaceae. BMC Evolutionary Biology, 2006, 6, 82.	3.2	130
8	Absence of Detectable Arsenate in DNA from Arsenate-Grown GFAJ-1 Cells. Science, 2012, 337, 470-473.	12.6	114
9	A Novel CRP-dependent Regulon Controls Expression of Competence Genes in Haemophilus influenzae. Journal of Molecular Biology, 2005, 347, 735-747.	4.2	109
10	Natural Transformation and DNA Uptake Signal Sequences in Actinobacillus actinomycetemcomitans. Journal of Bacteriology, 2002, 184, 3442-3449.	2.2	97
11	Transposon mutagenesis, characterization, and cloning of transformation genes of Haemophilus influenzae Rd. Journal of Bacteriology, 1989, 171, 3796-3802.	2.2	96
12	Male mutation rates and the cost of sex for females. Nature, 1994, 369, 145-147.	27.8	87
13	Non-canonical CRP sites control competence regulons in Escherichia coli and many other β -proteobacteria. Nucleic Acids Research, 2006, 34, 6001-6014.	14.5	87
14	Organization of the Haemophilus influenzae Rd genome. Journal of Bacteriology, 1989, 171, 3016-3024.	2.2	85
15	sxy-1, a Haemophilus influenzae mutation causing greatly enhanced spontaneous competence. Journal of Bacteriology, 1991, 173, 5612-5618.	2.2	78
16	Transformation of Natural Genetic Variation into Haemophilus Influenzae Genomes. PLoS Pathogens, 2011, 7, e1002151.	4.7	75
17	Regulation of competence development and sugar utilization in Haemophilus influenzae Rd by a phosphoenolpyruvate:fructose phosphotransferase system. Molecular Microbiology, 1996, 21, 941-952.	2.5	70
18	EXTENSIVE VARIATION IN NATURAL COMPETENCE IN <i>HAEMOPHILUS INFLUENZAE</i> . Evolution; International Journal of Organic Evolution, 2009, 63, 1852-1866.	2.3	70

#	ARTICLE	IF	CITATIONS
19	Oxymonads Are Closely Related to the Excavate Taxon Trimastix. <i>Molecular Biology and Evolution</i> , 2001, 18, 1034-1044.	8.9	67
20	The Evolution of Bacterial Transformation: Sex With Poor Relations. <i>Genetics</i> , 1997, 146, 27-38.	2.9	67
21	“Why Do We Have to Learn This Stuff?” A New Genetics for 21st Century Students. <i>PLoS Biology</i> , 2012, 10, e1001356.	5.6	64
22	Competence development by <i>Haemophilus influenzae</i> is regulated by the availability of nucleic acid precursors. <i>Molecular Microbiology</i> , 2001, 40, 700-707.	2.5	61
23	RNA secondary structure regulates the translation of <i>sxy</i> and competence development in <i>Haemophilus influenzae</i> . <i>Nucleic Acids Research</i> , 2008, 36, 10-20.	14.5	60
24	The <i>Haemophilus influenzae</i> adenylate cyclase gene: cloning, sequence, and essential role in competence. <i>Journal of Bacteriology</i> , 1993, 175, 7142-7149.	2.2	58
25	Seventeen <i>Sxy</i> -Dependent Cyclic AMP Receptor Protein Site-Regulated Genes Are Needed for Natural Transformation in <i>Haemophilus influenzae</i> . <i>Journal of Bacteriology</i> , 2012, 194, 5245-5254.	2.2	57
26	Persistence and Loss of Meiotic Recombination Hotspots. <i>Genetics</i> , 2005, 169, 2319-2333.	2.9	54
27	Natural DNA Uptake by <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2012, 7, e35620.	2.5	54
28	Transformation of <i>Haemophilus influenzae</i> . , 2003, 71, 57-70.		50
29	Extensive Cotransformation of Natural Variation into Chromosomes of Naturally Competent <i>Haemophilus influenzae</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 717-731.	1.8	47
30	Defining the DNA uptake specificity of naturally competent <i>Haemophilus influenzae</i> cells. <i>Nucleic Acids Research</i> , 2012, 40, 8536-8549.	14.5	46
31	A 3 ⁵ Cyclic AMP (cAMP) Phosphodiesterase Modulates cAMP Levels and Optimizes Competence in <i>Haemophilus influenzae</i> . <i>Rd. Journal of Bacteriology</i> , 1998, 180, 4401-4405.	2.2	45
32	<i>Sxy</i> Induces a CRP-S Regulon in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2009, 191, 5180-5195.	2.2	43
33	Phylogenetic Placement of <i>Trichonympha</i> . <i>Journal of Eukaryotic Microbiology</i> , 1998, 45, 445-447.	1.7	41
34	Does the medium change the message? The impact of a web-based genetics course on university students' perspectives on learning and teaching. <i>Computers and Education</i> , 2002, 38, 267-285.	8.3	40
35	The <i>Haemophilus influenzae sxy-1</i> mutation is in a newly identified gene essential for competence. <i>Journal of Bacteriology</i> , 1994, 176, 6789-6794.	2.2	39
36	Natural Transformation of <i>Gallibacterium anatis</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 4914-4922.	3.1	38

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37	Evolutionary stability of DNA uptake signal sequences in the Pasteurellaceae. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4513-4518.	7.1	37
38	Natural competence in strains of <i>Actinobacillus pleuropneumoniae</i> . FEMS Microbiology Letters, 2009, 298, 124-130.	1.8	35
39	Evolution of Bacterial Gene Transfer Agents. Frontiers in Microbiology, 2018, 9, 2527.	3.5	35
40	CRP Binding and Transcription Activation at CRP-S Sites. Journal of Molecular Biology, 2008, 383, 313-323.	4.2	33
41	The availability of purine nucleotides regulates natural competence by controlling translation of the competence activator <i>ScpX</i> . Molecular Microbiology, 2013, 88, 1106-1119.	2.5	33
42	Life in mucus: sugar metabolism in <i>Haemophilus influenzae</i> . Research in Microbiology, 1996, 147, 541-551.	2.1	30
43	Characterization of Nontypable <i>Haemophilus influenzae</i> Isolates Recovered from Adult Patients with Underlying Chronic Lung Disease Reveals Genotypic and Phenotypic Traits Associated with Persistent Infection. PLoS ONE, 2014, 9, e97020.	2.5	29
44	Tracing the Evolution of Competence in <i>Haemophilus influenzae</i> . PLoS ONE, 2009, 4, e5854.	2.5	25
45	Comment on "A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus". Science, 2011, 332, 1149-1149.	12.6	23
46	Structure of cryptic λ prophages. Journal of Molecular Biology, 1987, 198, 393-404.	4.2	22
47	Digging up the roots of life. Nature, 1996, 379, 587-588.	27.8	20
48	Coevolution of DNA Uptake Sequences and Bacterial Proteomes. Genome Biology and Evolution, 2009, 1, 45-55.	2.5	19
49	General Methods for Culturing <i>Haemophilus influenzae</i> . , 2003, 71, 51-56.		18
50	Point Mutations in a Peptidoglycan Biosynthesis Gene Cause Competence Induction in <i>Haemophilus influenzae</i> . Journal of Bacteriology, 2000, 182, 3323-3330.	2.2	16
51	Transformed Recombinant Enrichment Profiling Rapidly Identifies HMW1 as an Intracellular Invasion Locus in <i>Haemophilus influenzae</i> . PLoS Pathogens, 2016, 12, e1005576.	4.7	16
52	Bacterial DNA Uptake Sequences Can Accumulate by Molecular Drive Alone. Genetics, 2010, 186, 613-627.	2.9	14
53	Bacteria mating preferences. Nature, 1991, 352, 25-26.	27.8	9
54	Origin of Cryptic λ Prophages in <i>Escherichia coli</i> K-12. Cold Spring Harbor Symposia on Quantitative Biology, 1984, 49, 199-206.	1.1	7

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55	Mutationism, not Lamarckism, captures the novelty of CRISPR-Cas. <i>Biology and Philosophy</i> , 2019, 34, 1.	1.4	5
56	A competence-regulated toxin-antitoxin system in <i>Haemophilus influenzae</i> . <i>PLoS ONE</i> , 2020, 15, e0217255.	2.5	5
57	Genome-wide analysis of DNA uptake across the outer membrane of naturally competent <i>Haemophilus influenzae</i> . <i>IScience</i> , 2021, 24, 102007.	4.1	4
58	Cell transfer by filtration: evaluation of protocols for transformational competence. <i>FEMS Microbiology Letters</i> , 1996, 137, 183-187.	1.8	3
59	Putting my money where my mouth is: the Useful Genetics project. <i>Trends in Genetics</i> , 2015, 31, 195-200.	6.7	3
60	Looking to Bacteria for Clues. <i>Science</i> , 2009, 325, 946-946.	12.6	2
61	The Problem of the Evolution of Sex. <i>Biological Bulletin</i> , 1999, 196, 404-407.	1.8	1
62	The hotspot conversion paradox. <i>Nature Precedings</i> , 2009, , .	0.1	0
63	Three Histories of Competence and Transformation. , 0, , 277-289.		0