Robert A Burne

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Oral Biofilms: Pathogens, Matrix, and Polymicrobial Interactions in Microenvironments. Trends in Microbiology, 2018, 26, 229-242.	7.7	600
2	Role of the Streptococcus mutans gtf genes in caries induction in the specific-pathogen-free rat model. Infection and Immunity, 1993, 61, 3811-3817.	2.2	369
3	Impact of engineered surface microtopography on biofilm formation of <i>Staphylococcus aureus</i> . Biointerphases, 2007, 2, 89-94.	1.6	358
4	Alkali production by oral bacteria and protection against dental caries. FEMS Microbiology Letters, 2000, 193, 1-6.	1.8	341
5	Bacterial ureases in infectious diseases. Microbes and Infection, 2000, 2, 533-542.	1.9	305
6	A model of efficiency: stress tolerance by Streptococcus mutans. Microbiology (United Kingdom), 2008, 154, 3247-3255.	1.8	261
7	Streptococcus mutans Extracellular DNA Is Upregulated during Growth in Biofilms, Actively Released via Membrane Vesicles, and Influenced by Components of the Protein Secretion Machinery. Journal of Bacteriology, 2014, 196, 2355-2366.	2.2	249
8	Oral Streptococci Products of Their Environment. Journal of Dental Research, 1998, 77, 445-452.	5.2	228
9	Functional Genomics Approach to Identifying Genes Required for Biofilm Development by <i>Streptococcus mutans</i> . Applied and Environmental Microbiology, 2002, 68, 1196-1203.	3.1	217
10	LuxS-Mediated Signaling in <i>Streptococcus mutans</i> Is Involved in Regulation of Acid and Oxidative Stress Tolerance and Biofilm Formation. Journal of Bacteriology, 2004, 186, 2682-2691.	2.2	212
11	Multilevel Control of Competence Development and Stress Tolerance in <i>Streptococcus mutans</i> UA159. Infection and Immunity, 2006, 74, 1631-1642.	2.2	181
12	CcpA Regulates Central Metabolism and Virulence Gene Expression in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2008, 190, 2340-2349.	2.2	174
13	Evolutionary and Population Genomics of the Cavity Causing Bacteria Streptococcus mutans. Molecular Biology and Evolution, 2013, 30, 881-893.	8.9	168
14	Correlations of oral bacterial arginine and urea catabolism with caries experience. Oral Microbiology and Immunology, 2009, 24, 89-95.	2.8	167
15	Phylogenomics and the Dynamic Genome Evolution of the Genus Streptococcus. Genome Biology and Evolution, 2014, 6, 741-753.	2.5	149
16	Responses of cariogenic streptococci to environmental stresses. Current Issues in Molecular Biology, 2005, 7, 95-107.	2.4	148
17	Progress toward understanding the contribution of alkali generation in dental biofilms to inhibition of dental caries. International Journal of Oral Science, 2012, 4, 135-140.	8.6	147
18	Three gene products govern (p)ppGpp production by <i>Streptococcus mutans</i> . Molecular Microbiology, 2007, 65, 1568-1581.	2.5	146

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19	Different Roles of EIIAB ^{Man} and EII ^{Clc} in Regulation of Energy Metabolism, Biofilm Development, and Competence in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2006, 188, 3748-3756.	2.2	145
20	The Collagen-Binding Protein Cnm Is Required for Streptococcus mutans Adherence to and Intracellular Invasion of Human Coronary Artery Endothelial Cells. Infection and Immunity, 2011, 79, 2277-2284.	2.2	144
21	Effects of RelA on Key Virulence Properties of Planktonic and Biofilm Populations of <i>Streptococcus mutans</i> . Infection and Immunity, 2004, 72, 1431-1440.	2.2	143
22	Biofilm formation and virulence expression by Streptococcus mutans are altered when grown in dual-species model. BMC Microbiology, 2010, 10, 111.	3.3	143
23	Microbiomes of Site-Specific Dental Plaques from Children with Different Caries Status. Infection and Immunity, 2017, 85, .	2.2	141
24	Characteristics of Biofilm Formation by <i>Streptococcus mutans</i> in the Presence of Saliva. Infection and Immunity, 2008, 76, 4259-4268.	2.2	131
25	Fueling the caries process: carbohydrate metabolism and gene regulation by <i>Streptococcus mutans</i> . Journal of Oral Microbiology, 2014, 6, 24878.	2.7	126
26	Regulation and Physiologic Significance of the Agmatine Deiminase System of Streptococcus mutans UA159. Journal of Bacteriology, 2006, 188, 834-841.	2.2	124
27	Regulation of Expression of the Fructan Hydrolase Gene of <i>Streptococcus mutans</i> GS-5 by Induction and Carbon Catabolite Repression. Journal of Bacteriology, 1999, 181, 2863-2871.	2.2	124
28	Expression, purification, and characterization of an exo-beta-D-fructosidase of Streptococcus mutans. Journal of Bacteriology, 1987, 169, 4507-4517.	2.2	123
29	Influence of BrpA on Critical Virulence Attributes of <i>Streptococcus mutans</i> . Journal of Bacteriology, 2006, 188, 2983-2992.	2.2	120
30	Effects of Oxygen on Biofilm Formation and the AtlA Autolysin of <i>Streptococcus mutans</i> . Journal of Bacteriology, 2007, 189, 6293-6302.	2.2	117
31	Trigger Factor in <i>Streptococcus mutans</i> Is Involved in Stress Tolerance, Competence Development, and Biofilm Formation. Infection and Immunity, 2005, 73, 219-225.	2.2	115
32	Transcriptional analysis of the <i>Streptococcus mutans hrcA</i> , <i>grpE</i> and <i>dnaK</i> genes and regulation of expression in response to heat shock and environmental acidification. Molecular Microbiology, 1997, 25, 329-341.	2.5	114
33	Regulation and Physiological Significance of ClpC and ClpP in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2002, 184, 6357-6366.	2.2	113
34	Microfluidic study of competence regulation in <i>Streptococcus mutans</i> : environmental inputs modulate bimodal and unimodal expression of <i>comX</i> . Molecular Microbiology, 2012, 86, 258-272.	2.5	113
35	A Highly Arginolytic Streptococcus Species That Potently Antagonizes Streptococcus mutans. Applied and Environmental Microbiology, 2016, 82, 2187-2201.	3.1	109
36	Regulation of the gtfBC and ftf genes of Streptococcus mutans in biofilms in response to pH and carbohydrate. Microbiology (United Kingdom), 2001, 147, 2841-2848.	1.8	108

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37	Characterization of <i>Streptococcus mutans</i> Strains Deficient in EllAB ^{Man} of the Sugar Phosphotransferase System. Applied and Environmental Microbiology, 2003, 69, 4760-4769.	3.1	104
38	Streptococcus salivarius urease: genetic and biochemical characterization and expression in a dental plaque streptococcus. Infection and Immunity, 1996, 64, 585-592.	2.2	99
39	Transcriptional Regulation of the <i>Streptococcus salivarius</i> 57.1 Urease Operon. Journal of Bacteriology, 1998, 180, 5769-5775.	2.2	99
40	Role of HtrA in Growth and Competence of Streptococcus mutans UA159. Journal of Bacteriology, 2005, 187, 3028-3038.	2.2	98
41	Utilization of Lactose and Galactose by <i>Streptococcus mutans</i> : Transport, Toxicity, and Carbon Catabolite Repression. Journal of Bacteriology, 2010, 192, 2434-2444.	2.2	96
42	The effect of arginine on oral biofilm communities. Molecular Oral Microbiology, 2014, 29, 45-54.	2.7	96
43	Effects of Oxygen on Virulence Traits of Streptococcus mutans. Journal of Bacteriology, 2007, 189, 8519-8527.	2.2	93
44	Genetic and Physiologic Analysis of the <i>groE</i> Operon and Role of the HrcA Repressor in Stress Gene Regulation and Acid Tolerance in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2001, 183, 6074-6084.	2.2	90
45	Physiologic Effects of Forced Down-Regulation of dnaK and groEL Expression in Streptococcus mutans. Journal of Bacteriology, 2007, 189, 1582-1588.	2.2	90
46	Global Regulation by (p)ppGpp and CodY in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2008, 190, 5291-5299.	2.2	87
47	Phenotypic Heterogeneity of Genomically-Diverse Isolates of Streptococcus mutans. PLoS ONE, 2013, 8, e61358.	2.5	87
48	Progress Dissecting the Oral Microbiome in Caries and Health. Advances in Dental Research, 2012, 24, 77-80.	3.6	86
49	Analysis of an Agmatine Deiminase Gene Cluster in Streptococcus mutans UA159. Journal of Bacteriology, 2004, 186, 1902-1904.	2.2	85
50	Bacterial Biofilms May Contribute to Persistent Cochlear Implant Infection. Otology and Neurotology, 2004, 25, 953-957.	1.3	85
51	Nonfluoride caries-preventive agents. Journal of the American Dental Association, 2011, 142, 1065-1071.	1.5	83
52	Uptake and Metabolism of <i>N</i> -Acetylglucosamine and Glucosamine by Streptococcus mutans. Applied and Environmental Microbiology, 2014, 80, 5053-5067.	3.1	82
53	Diversity in Antagonistic Interactions between Commensal Oral Streptococci and Streptococcus mutans. Caries Research, 2018, 52, 88-101.	2.0	81
54	Control of Expression of the Arginine Deiminase Operon of Streptococcus gordonii by CcpA and Flp. Journal of Bacteriology, 2004, 186, 2511-2514.	2.2	80

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55	A novel signal transduction system and feedback loop regulate fructan hydrolase gene expression in Streptococcus mutans. Molecular Microbiology, 2006, 62, 187-200.	2.5	79
56	Cariogenicity of Streptococcus mutans Strains with Defects in Fructan Metabolism Assessed in a Program-fed Specific-pathogen-free Rat Model. Journal of Dental Research, 1996, 75, 1572-1577.	5.2	76
57	Isolation and Molecular Analysis of the Gene Cluster for the Arginine Deiminase System from <i>Streptococcus gordonii</i> DL1. Applied and Environmental Microbiology, 2002, 68, 5549-5553.	3.1	76
58	Oral Arginine Metabolism May Decrease the Risk for Dental Caries in Children. Journal of Dental Research, 2013, 92, 604-608.	5.2	76
59	Streptococcus mutans fructosyltransferase (ftf) and glucosyltransferase (gtfBC) operon fusion strains in continuous culture. Infection and Immunity, 1993, 61, 1259-1267.	2.2	76
60	The atlA Operon of Streptococcus mutans : Role in Autolysin Maturation and Cell Surface Biogenesis. Journal of Bacteriology, 2006, 188, 6877-6888.	2.2	75
61	Inactivation of VicK Affects Acid Production and Acid Survival of <i>Streptococcus mutans</i> . Journal of Bacteriology, 2009, 191, 6415-6424.	2.2	74
62	Gene Regulation by CcpA and Catabolite Repression Explored by RNA-Seq in Streptococcus mutans. PLoS ONE, 2013, 8, e60465.	2.5	74
63	Dual Functions of <i>Streptococcus salivarius</i> Urease. Journal of Bacteriology, 2000, 182, 4667-4669.	2.2	72
64	Transcriptional Regulation of the Cellobiose Operon of <i>Streptococcus mutans</i> . Journal of Bacteriology, 2009, 191, 2153-2162.	2.2	72
65	Serylâ€phosphorylated HPr regulates CcpAâ€independent carbon catabolite repression in conjunction with PTS permeases in <i>Streptococcus mutans</i> . Molecular Microbiology, 2010, 75, 1145-1158.	2.5	72
66	Characterization of the Streptococcus mutans GS-5 fruA gene encoding exo-beta-D-fructosidase. Infection and Immunity, 1992, 60, 4621-4632.	2.2	72
67	Invasion of human coronary artery endothelial cells by <i>Streptococcus mutans</i> OMZ175. Oral Microbiology and Immunology, 2009, 24, 141-145.	2.8	71
68	RNA-Seq Reveals Enhanced Sugar Metabolism in Streptococcus mutans Co-cultured with Candida albicans within Mixed-Species Biofilms. Frontiers in Microbiology, 2017, 8, 1036.	3.5	71
69	Identification and Characterization of the Nickel Uptake System for Urease Biogenesis in Streptococcus salivarius 57.I. Journal of Bacteriology, 2003, 185, 6773-6779.	2.2	70
70	Analysis of Gene Expression in Streptococcus Mutans in Biofilms in Vitro. Advances in Dental Research, 1997, 11, 100-109.	3.6	69
71	The Streptococcus mutans Cid and Lrg systems modulate virulence traits in response to multiple environmental signals. Microbiology (United Kingdom), 2010, 156, 3136-3147.	1.8	69
72	A Transcriptional Regulator and ABC Transporters Link Stress Tolerance, (p)ppGpp, and Genetic Competence in <i>Streptococcus mutans</i> . Journal of Bacteriology, 2011, 193, 862-874.	2.2	68

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73	Role of RelA of <i>Streptococcus mutans</i> in Global Control of Gene Expression. Journal of Bacteriology, 2008, 190, 28-36.	2.2	67
74	Effects of mutating putative two-component systems on biofilm formation by Streptococcus mutans UA159. FEMS Microbiology Letters, 2001, 205, 225-230.	1.8	66
75	Adaptive Acid Tolerance Response of Streptococcus sobrinus. Journal of Bacteriology, 2004, 186, 6383-6390.	2.2	66
76	Environmental and Growth Phase Regulation of the <i>Streptococcus gordonii</i> Arginine Deiminase Genes. Applied and Environmental Microbiology, 2008, 74, 5023-5030.	3.1	66
77	Protocols to Study the Physiology of Oral Biofilms. Methods in Molecular Biology, 2010, 666, 87-102.	0.9	65
78	Influence of Apigenin on <i>gtf</i> Gene Expression in <i>Streptococcus mutans</i> UA159. Antimicrobial Agents and Chemotherapy, 2006, 50, 542-546.	3.2	62
79	Transcriptional repressor Rex is involved in regulation of oxidative stress response and biofilm formation by Streptococcus mutans. FEMS Microbiology Letters, 2011, 320, 110-117.	1.8	62
80	Characterization of Recombinant, Ureolytic <i>Streptococcus mutans</i> Demonstrates an Inverse Relationship between Dental Plaque Ureolytic Capacity and Cariogenicity. Infection and Immunity, 2000, 68, 2621-2629.	2.2	59
81	Analysis ofStreptococcus salivariusurease expression using continuous chemostat culture. FEMS Microbiology Letters, 1996, 135, 223-229.	1.8	58
82	Transcriptome analysis of LuxSâ€deficient <i>Streptococcus mutans</i> grown in biofilms. Molecular Oral Microbiology, 2011, 26, 2-18.	2.7	58
83	Characterization of the Arginolytic Microflora Provides Insights into pH Homeostasis in Human Oral Biofilms. Caries Research, 2015, 49, 165-176.	2.0	58
84	BrpA Is Involved in Regulation of Cell Envelope Stress Responses in Streptococcus mutans. Applied and Environmental Microbiology, 2012, 78, 2914-2922.	3.1	56
85	Modification of Gene Expression and Virulence Traits in Streptococcus mutans in Response to Carbohydrate Availability. Applied and Environmental Microbiology, 2014, 80, 972-985.	3.1	54
86	Galactose Metabolism by Streptococcus mutans. Applied and Environmental Microbiology, 2004, 70, 6047-6052.	3.1	53
87	Identification of the Streptococcus mutans LytST two-component regulon reveals its contribution to oxidative stress tolerance. BMC Microbiology, 2012, 12, 187.	3.3	50
88	Comprehensive Mutational Analysis of Sucrose-Metabolizing Pathways in Streptococcus mutans Reveals Novel Roles for the Sucrose Phosphotransferase System Permease. Journal of Bacteriology, 2013, 195, 833-843.	2.2	49
89	Genetic and Physiologic Characterization of Urease of <i>Actinomyces naeslundii</i> . Infection and Immunity, 1999, 67, 504-512.	2.2	49
90	Role of Urease Enzymes in Stability of a 10-Species Oral Biofilm Consortium Cultivated in a Constant-Depth Film Fermenter. Infection and Immunity, 2003, 71, 7188-7192.	2.2	48

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91	Changes in Biochemical and Phenotypic Properties of Streptococcus mutans during Growth with Aeration. Applied and Environmental Microbiology, 2009, 75, 2517-2527.	3.1	48
92	Characterization of the Arginine Deiminase Operon of Streptococcus rattus FA-1. Applied and Environmental Microbiology, 2004, 70, 1321-1327.	3.1	47
93	Growth Phase and pH Influence Peptide Signaling for Competence Development in Streptococcus mutans. Journal of Bacteriology, 2014, 196, 227-236.	2.2	47
94	Effects of Arginine on Streptococcus mutans Growth, Virulence Gene Expression, and Stress Tolerance. Applied and Environmental Microbiology, 2017, 83, .	3.1	47
95	Genomewide Identification of Essential Genes and Fitness Determinants of Streptococcus mutans UA159. MSphere, 2018, 3, .	2.9	47
96	Sharply Tuned pH Response of Genetic Competence Regulation in Streptococcus mutans: a Microfluidic Study of the Environmental Sensitivity of <i>comX</i> . Applied and Environmental Microbiology, 2015, 81, 5622-5631.	3.1	46
97	Streptococcus mutans: Fructose Transport, Xylitol Resistance, and Virulence. Journal of Dental Research, 2006, 85, 369-373.	5.2	45
98	The Streptococcus mutans irvA Gene Encodes a trans -Acting Riboregulatory mRNA. Molecular Cell, 2015, 57, 179-190.	9.7	45
99	Species Designations Belie Phenotypic and Genotypic Heterogeneity in Oral Streptococci. MSystems, 2018, 3, .	3.8	45
100	A Hypothetical Protein of Streptococcus mutans Is Critical for Biofilm Formation. Infection and Immunity, 2005, 73, 3147-3151.	2.2	44
101	The relationship between dental caries status and dental plaque urease activity. Oral Microbiology and Immunology, 2007, 22, 61-66.	2.8	44
102	Multiple sugar: phosphotransferase system permeases participate in catabolite modification of gene expression in <i>Streptococcus mutans</i> . Molecular Microbiology, 2008, 70, 197-208.	2.5	44
103	Multiple Two-Component Systems Modulate Alkali Generation in <i>Streptococcus gordonii</i> in Response to Environmental Stresses. Journal of Bacteriology, 2009, 191, 7353-7362.	2.2	44
104	Regulation of urease gene expression by Streptococcus salivarius growing in biofilms. Environmental Microbiology, 2000, 2, 169-177.	3.8	43
105	Characteristics ofStreptococcus mutansstrains lacking the MazEF and RelBE toxin–antitoxin modules. FEMS Microbiology Letters, 2005, 253, 251-257.	1.8	43
106	AguR Is Required for Induction of the Streptococcus mutans Agmatine Deiminase System by Low pH and Agmatine. Applied and Environmental Microbiology, 2009, 75, 2629-2637.	3.1	43
107	The Major Autolysin of Streptococcus gordonii Is Subject to Complex Regulation and Modulates Stress Tolerance, Biofilm Formation, and Extracellular-DNA Release. Journal of Bacteriology, 2011, 193, 2826-2837.	2.2	42
108	Analysis of cis- and trans-Acting Factors Involved in Regulation of the Streptococcus mutans Fructanase Gene (fruA). Journal of Bacteriology, 2002, 184, 126-133.	2.2	40

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109	Multiple Two-Component Systems of Streptococcus mutans Regulate Agmatine Deiminase Gene Expression and Stress Tolerance. Journal of Bacteriology, 2009, 191, 7363-7366.	2.2	40
110	Characterization of cis- Acting Sites Controlling Arginine Deiminase Gene Expression in Streptococcus gordonii. Journal of Bacteriology, 2006, 188, 941-949.	2.2	39
111	Repurposing the Streptococcus mutansÂCRISPR-Cas9 System to Understand Essential Gene Function. PLoS Pathogens, 2020, 16, e1008344.	4.7	39
112	Tight Genetic Linkage of a Glucosyltransferase and Dextranase of Streptococcus mutans GS-5. Journal of Dental Research, 1986, 65, 1392-1401.	5.2	38
113	[33] Physiologic homeostasis and stress responses in oral biofilms. Methods in Enzymology, 1999, 310, 441-460.	1.0	38
114	Effects of Carbohydrate Source on Genetic Competence in Streptococcus mutans. Applied and Environmental Microbiology, 2016, 82, 4821-4834.	3.1	38
115	Construction of a New Integration Vector for Use in Streptococcus mutans. Plasmid, 2001, 45, 31-36.	1.4	37
116	Differential oxidative stress tolerance ofStreptococcus mutansisolates affects competition in an ecological mixedâ€species biofilm model. Environmental Microbiology Reports, 2018, 10, 12-22.	2.4	36
117	The EIIAB ^{Man} Phosphotransferase System Permease Regulates Carbohydrate Catabolite Repression in <i>Streptococcus gordonii</i> . Applied and Environmental Microbiology, 2011, 77, 1957-1965.	3.1	35
118	Discovery of Novel Peptides Regulating Competence Development in Streptococcus mutans. Journal of Bacteriology, 2014, 196, 3735-3745.	2.2	35
119	Bidirectional signaling in the competence regulatory pathway ofStreptococcus mutans. FEMS Microbiology Letters, 2015, 362, fnv159.	1.8	35
120	Sucrose- and Fructose-Specific Effects on the Transcriptome of Streptococcus mutans, as Determined by RNA Sequencing. Applied and Environmental Microbiology, 2016, 82, 146-156.	3.1	34
121	Site-Specific Profiling of the Dental Mycobiome Reveals Strong Taxonomic Shifts during Progression of Early-Childhood Caries. Applied and Environmental Microbiology, 2020, 86, .	3.1	34
122	Characterization of two operons that encode components of fructose-specific enzyme II of the sugar:phosphotransferase system of Streptococcus mutans. FEMS Microbiology Letters, 2001, 205, 337-342.	1.8	33
123	Two Gene Clusters Coordinate Galactose and Lactose Metabolism in Streptococcus gordonii. Applied and Environmental Microbiology, 2012, 78, 5597-5605.	3.1	33
124	A unique open reading frame within the <scp><i>comX</i></scp> gene of <scp><i>S</i></scp> <i>treptococcus mutans</i> regulates genetic competence and oxidative stress tolerance. Molecular Microbiology, 2015, 96, 463-482.	2.5	33
125	An Essential Role for (p)ppGpp in the Integration of Stress Tolerance, Peptide Signaling, and Competence Development in Streptococcus mutans. Frontiers in Microbiology, 2016, 7, 1162.	3.5	33
126	Intracellular Signaling by the <i>comRS</i> System in <i>Streptococcus mutans</i> Genetic Competence. MSphere, 2018, 3, .	2.9	32

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127	Cloning and expression in Escherichia coli of the genes of the arginine deiminase system of Streptococcus sanguis NCTC 10904. Infection and Immunity, 1989, 57, 3540-3548.	2.2	32
128	Urease activity in dental plaque and saliva of children during a three-year study period and its relationship with other caries risk factors. Archives of Oral Biology, 2011, 56, 1282-1289.	1.8	31
129	NagR Differentially Regulates the Expression of the <i>glmS</i> and <i>nagAB</i> Genes Required for Amino Sugar Metabolism by Streptococcus mutans. Journal of Bacteriology, 2015, 197, 3533-3544.	2.2	31
130	CcpA and CodY Coordinate Acetate Metabolism in Streptococcus mutans. Applied and Environmental Microbiology, 2017, 83, .	3.1	31
131	cis-Acting elements that regulate the low-pH-inducible urease operon of Streptococcus salivarius. Microbiology (United Kingdom), 2002, 148, 3599-3608.	1.8	31
132	Coordinated Regulation of the EII ^{Man} and <i>fruRKI</i> Operons of Streptococcus mutans by Global and Fructose-Specific Pathways. Applied and Environmental Microbiology, 2017, 83, .	3.1	30
133	RegM is required for optimal fructosyltransferase and glucosyltransferase gene expression in <i>Streptococcus mutans</i> . FEMS Microbiology Letters, 2004, 240, 75-79.	1.8	29
134	Genetics and Physiology of Acetate Metabolism by the Pta-Ack Pathway of Streptococcus mutans. Applied and Environmental Microbiology, 2015, 81, 5015-5025.	3.1	29
135	Getting to Know "The Known Unknowns― Heterogeneity in the Oral Microbiome. Advances in Dental Research, 2018, 29, 66-70.	3.6	29
136	Metabolic Profile of Supragingival Plaque Exposed to Arginine and Fluoride. Journal of Dental Research, 2019, 98, 1245-1252.	5.2	28
137	Mutanofactin promotes adhesion and biofilm formation of cariogenic Streptococcus mutans. Nature Chemical Biology, 2021, 17, 576-584.	8.0	28
138	The pH-Dependent Expression of the Urease Operon in Streptococcus salivarius Is Mediated by CodY. Applied and Environmental Microbiology, 2014, 80, 5386-5393.	3.1	27
139	Amino Sugars Enhance the Competitiveness of Beneficial Commensals with Streptococcus mutans through Multiple Mechanisms. Applied and Environmental Microbiology, 2016, 82, 3671-3682.	3.1	27
140	Transcriptional analysis of the groE and dnaK heat-shock operons of Enterococcus faecalis. Research in Microbiology, 2004, 155, 252-258.	2.1	26
141	Construction and characterization of a recombinant ureolytic Streptococcus mutans and its use to demonstrate the relationship of urease activity to pH modulating capacity. FEMS Microbiology Letters, 1997, 151, 205-211.	1.8	26
142	Caries Prevention by Arginine Metabolism in Oral Biofilms: Translating Science into Clinical Success. Current Oral Health Reports, 2014, 1, 79-85.	1.6	26
143	Differential localization of theStreptococcus mutansGS-5 fructan hydrolase enzyme, FruA. FEMS Microbiology Letters, 1994, 121, 243-249.	1.8	25
144	Amino Sugars Modify Antagonistic Interactions between Commensal Oral Streptococci and <i>Streptococcus mutans</i> . Applied and Environmental Microbiology, 2019, 85, .	3.1	25

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145	DnaK expression in response to heat shock ofStreptococcus mutans. FEMS Microbiology Letters, 1995, 131, 255-261.	1.8	24
146	Streptococcus salivariusurease expression: involvement of the phosphoenolpyruvate:sugar phosphotransferase system. FEMS Microbiology Letters, 1998, 165, 117-122.	1.8	24
147	Transcriptional Organization and Physiological Contributions of the relQ Operon of Streptococcus mutans. Journal of Bacteriology, 2012, 194, 1968-1978.	2.2	24
148	A galactoseâ€specific sugar:Âphosphotransferase permease is prevalent in the nonâ€core genome of <i><scp>S</scp>treptococcus mutans</i> . Molecular Oral Microbiology, 2013, 28, 292-301.	2.7	24
149	Characteristics and cariogenicity of a fructanase-defective Streptococcus mutants strain. Infection and Immunity, 1992, 60, 3673-3681.	2.2	24
150	Characterization of the Fructosyltransferase Gene of Actinomyces naeslundii WVU45. Journal of Bacteriology, 2000, 182, 3649-3654.	2.2	23
151	Biofilm formation in an in vitro model of cochlear implants with removable magnets. Otolaryngology - Head and Neck Surgery, 2007, 136, 583-588.	1.9	23
152	Oxidative Stressors Modify the Response of Streptococcus mutans to Its Competence Signal Peptides. Applied and Environmental Microbiology, 2017, 83, .	3.1	23
153	Fluorescence Tools Adapted for Real-Time Monitoring of the Behaviors of <i>Streptococcus</i> Species. Applied and Environmental Microbiology, 2019, 85, .	3.1	23
154	Analysis of Urease Expression in Actinomyces naeslundii WVU45. Infection and Immunity, 2000, 68, 6670-6676.	2.2	22
155	Osmotic stress responses ofStreptococcus mutansUA159. FEMS Microbiology Letters, 2006, 255, 240-246.	1.8	22
156	Core-Gene-Encoded Peptide Regulating Virulence-Associated Traits in Streptococcus mutans. Journal of Bacteriology, 2013, 195, 2912-2920.	2.2	22
157	Growth of Streptococcus mutans in Biofilms Alters Peptide Signaling at the Sub-population Level. Frontiers in Microbiology, 2016, 7, 1075.	3.5	22
158	Intercellular Communication via the <i>comX</i> -Inducing Peptide (XIP) of Streptococcus mutans. Journal of Bacteriology, 2017, 199, .	2.2	22
159	Molecular cloning, purification and immunological responses of recombinants GroEL and DnaK fromStreptococcus pyogenes. FEMS Immunology and Medical Microbiology, 2000, 28, 121-128.	2.7	21
160	Arginine Metabolism in Supragingival Oral Biofilms as a Potential Predictor of Caries Risk. JDR Clinical and Translational Research, 2019, 4, 262-270.	1.9	21
161	Genetic and transcriptional analysis of flgB flagellar operon constituents in the oral spirochete Treponema denticola and their heterologous expression in enteric bacteria. Infection and Immunity, 1997, 65, 2041-2051.	2.2	21
162	Novel Probiotic Mechanisms of the Oral Bacterium <i>Streptococcus</i> sp. A12 as Explored with Functional Genomics. Applied and Environmental Microbiology, 2019, 85, .	3.1	20

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