Gabriele Klug

List of Publications by Year
in descending order

157 papers	5,482 citations	76326 40 h-index	110387 64 g-index
158 all docs	158 docs citations	158 times ranked	3762 citing authors

#	Article	IF	Citations
1	BLUF: a novel FAD-binding domain involved in sensory transduction in microorganisms. Trends in Biochemical Sciences, 2002, 27, 497-500.	7.5	380
2	mRNA degradation in bacteria. FEMS Microbiology Reviews, 1999, 23, 353-370.	8.6	199
3	The archaeal exosome core is a hexameric ring structure with three catalytic subunits. Nature Structural and Molecular Biology, 2005, 12, 575-581.	8.2	198
4	A single flavoprotein, AppA, integrates both redox and light signals in <i>Rhodobacter sphaeroides</i>. Molecular Microbiology, 2002, 45, 827-836.	2.5	164
5	Thioredoxins in bacteria: functions in oxidative stress response and regulation of thioredoxin genes. Die Naturwissenschaften, 2006, 93, 259-266.	1.6	149
6	An exosomeâ€like complex in Sulfolobus solfataricus. EMBO Reports, 2003, 4, 889-893.	4.5	128
7	Singlet Oxygen Stress in Microorganisms. Advances in Microbial Physiology, 2011, 58, 141-173.	2.4	116
8	Exoribonuclease R Interacts with Endoribonuclease E and an RNA Helicase in the Psychrotrophic Bacterium Pseudomonas syringae Lz4W. Journal of Biological Chemistry, 2005, 280, 14572-14578.	3.4	114
9	Photo-oxidative stress in Rhodobacter sphaeroides: protective role of carotenoids and expression of selected genes. Microbiology (United Kingdom), 2005, 151, 1927-1938.	1.8	111
10	Photooxidative stressâ€induced and abundant small RNAs in <i>Rhodobacter sphaeroides</i>. Molecular Microbiology, 2009, 74, 1497-1512.	2.5	90
11	RNA polyadenylation in Archaea: not observed in Haloferax while the exosome polynucleotidylates RNA in Sulfolobus. EMBO Reports, 2005, 6, 1188-1193.	4.5	82
12	CryB from <i>Rhodobacter sphaeroides</i>: a unique class of cryptochromes with new cofactors. EMBO Reports, 2012, 13, 223-229.	4.5	82
13	The role of mRNA degradation in the regulated expression of bacterial photosynthesis genes. Molecular Microbiology, 1993, 9, 1-7.	2.5	81
14	An mRNA degrading complex in Rhodobacter capsulatus. Nucleic Acids Research, 2001, 29, 4581-4588.	14.5	79
15	Regulation of bacterial photosynthesis genes by oxygen and light. FEMS Microbiology Letters, 1999, 179, 1-9.	1.8	77
16	RpoH _{II} Activates Oxidative-Stress Defense Systems and Is Controlled by RpoE in the Singlet Oxygen-Dependent Response in <i>Rhodobacter sphaeroides</i>. Journal of Bacteriology, 2009, 191, 220-230.	2.2	77
17	Homoserine Lactones Influence the Reaction of Plants to Rhizobia. International Journal of Molecular Sciences, 2013, 14, 17122-17146.	4.1	77
18	Gene expression of pigment-binding proteins of the bacterial photosynthetic apparatus: Transcription and assembly in the membrane of Rhodopseudomonas capsulata. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 6485-6489.	7.1	70

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19	Construction of a gene bank of Rhodopseudomonas capsulata using a broad host range DNA cloning system. Archives of Microbiology, 1984, 139, 319-325.	2.2	63
20	Responses of the Rhodobacter sphaeroides Transcriptome to Blue Light under Semiaerobic Conditions. Journal of Bacteriology, 2004, 186, 7726-7735.	2.2	62
21	A eukaryotic BLUF domain mediates light-dependent gene expression in the purple bacterium <i>Rhodobacter sphaeroides</i> 2.4.1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12306-12311.	7.1	62
22	Overlapping Alternative Sigma Factor Regulons in the Response to Singlet Oxygen in<i>Rhodobacter sphaeroides</i>. Journal of Bacteriology, 2010, 192, 2613-2623.	2.2	61
23	Comparative analyses of the variation of the transcriptome and proteome of Rhodobacter sphaeroides throughout growth. BMC Genomics, 2019, 20, 358.	2.8	60
24	Transcriptome and Physiological Responses to Hydrogen Peroxide of the Facultatively Phototrophic Bacterium Rhodobacter sphaeroides. Journal of Bacteriology, 2005, 187, 7232-7242.	2.2	59
25	Integrative â€œOmicsâ€•Approach Discovers Dynamic and Regulatory Features of Bacterial Stress Responses. PLoS Genetics, 2013, 9, e1003576.	3.5	57
26	Regulation of bacterial photosynthesis genes by the small noncoding RNA PcrZ. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16306-16311.	7.1	56
27	Contribution of Hfq to photooxidative stress resistance and global regulation in <i>Rhodobacter sphaeroides</i>. Molecular Microbiology, 2011, 80, 1479-1495.	2.5	55
28	A haem cofactor is required for redox and light signalling by the AppA protein of Rhodobacter sphaeroides. Molecular Microbiology, 2007, 64, 1090-1104.	2.5	53
29	Endonucleolytic degradation of puf mRNA in Rhodobacter capsulatus is influenced by oxygen.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1765-1769.	7.1	51
30	Characterization of native and reconstituted exosome complexes from the hyperthermophilic archaeon Sulfolobus solfataricus. Molecular Microbiology, 2006, 62, 1076-1089.	2.5	51
31	New aspects of RNA processing in prokaryotes. Current Opinion in Microbiology, 2011, 14, 587-592.	5.1	49
32	Identification of an mRNA element promoting rateâ€limiting cleavage of the polycistronic <i>puf</i> mRNA in <i>Rhodobacter capsulatus</i> by an enzyme to RNase E. Molecular Microbiology, 1995, 15, 1017-1029.	2.5	46
33	Detoxification of hydrogen peroxide and expression of catalase genes in Rhodobacter. Microbiology (United Kingdom), 2004, 150, 3451-3462.	1.8	46
34	Protein Synthesis Patterns Reveal a Complex Regulatory Response to Singlet Oxygen inRhodobacter. Journal of Proteome Research, 2007, 6, 2460-2471.	3.7	46
35	Effect of the pufQ-pufB intercistronic region on puf mRNA stability in Rhodobacter capsulatus. Molecular Microbiology, 1996, 20, 1165-1178.	2.5	44
36	RNase III Processing of Intervening Sequences Found in Helix 9 of 23S rRNA in the Alpha Subclass of <i>Proteobacteria</i>. Journal of Bacteriology, 2000, 182, 4719-4729.	2.2	43

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37	Dehydrogenases from All Three Domains of Life Cleave RNA. Journal of Biological Chemistry, 2002, 277, 46145-46150.	3.4	43
38	Blue Light Perception in Bacteria. Photosynthesis Research, 2004, 79, 45-57.	2.9	43
39	A Cluster of Four Homologous Small RNAs Modulates C1Metabolism and the Pyruvate Dehydrogenase Complex in Rhodobacter sphaeroides under Various Stress Conditions. Journal of Bacteriology, 2015, 197, 1839-1852.	2.2	43
40	The influence of bacteriochlorophyll biosynthesis on formation of pigment-binding proteins and assembly of pigment protein complexes in Rhodopseudomonas capsulata. Archives of Microbiology, 1986, 146, 284-291.	2.2	42
41	A cryptochromeâ€like protein is involved in the regulation of photosynthesis genes in <i>Rhodobacter sphaeroides</i>. Molecular Microbiology, 2009, 74, 990-1003.	2.5	41
42	Chapter 7 RNA Degradation in Archaea and Gramâ€Negative Bacteria Different from Escherichia coli. Progress in Molecular Biology and Translational Science, 2009, 85, 275-317.	1.7	41
43	Anoxygenic photosynthesis and photooxidative stress: a particular challenge for <i>Roseobacter</i>. Environmental Microbiology, 2011, 13, 775-791.	3.8	41
44	Role of oxygen and the OxyR protein in the response to iron limitation in Rhodobacter sphaeroides. BMC Genomics, 2014, 15, 794.	2.8	40
45	A DNA sequence upstream of the puf operon of Rhodobacter capsulatus is involved in its oxygen-dependent regulation and functions as a protein binding site. Molecular Genetics and Genomics, 1991, 226-226, 167-176.	2.4	39
46	Identification and Analysis of the rnc Gene for RNase III in Rhodobacter Capsulatus. Nucleic Acids Research, 1996, 24, 1246-1251.	14.5	35
47	Light-dependent regulation of photosynthesis genes inRhodobacter sphaeroides2.4.1 is coordinately controlled by photosynthetic electron transport via the PrrBA two-component system and the photoreceptor AppA. Molecular Microbiology, 2005, 58, 903-914.	2.5	35
48	Regulation of a polyamine transporter by the conserved 3â€² UTR-derived sRNA SorX confers resistance to singlet oxygen and organic hydroperoxides in<i>Rhodobacter sphaeroides</i>. RNA Biology, 2016, 13, 988-999.	3.1	35
49	The phrA gene of Rhodobacter sphaeroides encodes a photolyase and is regulated by singlet oxygen and peroxide in a Ïƒ E-dependent manner. Microbiology (United Kingdom), 2007, 153, 1842-1851.	1.8	35
50	Regulation of expression of photosynthesis genes in anoxygenic photosynthetic bacteria. Archives of Microbiology, 1993, 159, 397-404.	2.2	34
51	Thioredoxin is Essential for Rhodobacter Sphaeroides Growth by Aerobic and Anaerobic Respiration. Microbiology (United Kingdom), 1997, 143, 83-91.	1.8	34
52	Individual gvp transcript segments in Haloferax mediterranei exhibit varying half-lives, which are differentially affected by salt concentration and growth phase. Nucleic Acids Research, 2002, 30, 5436-5443.	14.5	34
53	The influence of Hfq and ribonucleases on the stability of the small non-coding RNA OxyS and its target<i>rpoS</i>in<i>E. coli</i>is growth phase dependent. RNA Biology, 2009, 6, 584-594.	3.1	34
54	RNase E Affects the Expression of the Acyl-Homoserine Lactone Synthase Gene <i>sinI</i> in Sinorhizobium meliloti. Journal of Bacteriology, 2014, 196, 1435-1447.	2.2	34

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55	The rate of decay of Rhodobacter capsulatus-spzcific puf mRNA segments is differentially affected by RNase E activity in Escherichia coli. Gene, 1992, 121, 95-102.	2.2	33
56	Different cleavage specificities of RNases III from Rhodobacter capsulatus and Escherichia coli. Nucleic Acids Research, 1998, 26, 4446-4453.	14.5	33
57	Improved Northern Blot Detection of Small RNAs Using EDC Crosslinking and DNA/LNA Probes. Methods in Molecular Biology, 2015, 1296, 41-51.	0.9	33
58	The Glutathione-Glutaredoxin System in Rhodobacter capsulatus: Part of a Complex Regulatory Network Controlling Defense against Oxidative Stress. Journal of Bacteriology, 2004, 186, 6800-6808.	2.2	32
59	Global Analysis of mRNA Decay in Halobacterium salinarum NRC-1 at Single-Gene Resolution Using DNA Microarrays. Journal of Bacteriology, 2007, 189, 6936-6944.	2.2	32
60	The sRNA SorY confers resistance during photooxidative stress by affecting a metabolite transporter in<i>Rhodobacter sphaeroides</i>. RNA Biology, 2015, 12, 569-577.	3.1	32
61	Expression of the trxA gene for thioredoxin 1 in Rhodobacter sphaeroides during oxidative stress. Archives of Microbiology, 2003, 180, 484-489.	2.2	31
62	Regulation of Hydrogen Peroxide-Dependent Gene Expression in Rhodobacter sphaeroides : Regulatory Functions of OxyR. Journal of Bacteriology, 2007, 189, 3784-3792.	2.2	31
63	Thioredoxin 2 is involved in oxidative stress defence and redox-dependent expression of photosynthesis genes in Rhodobacter capsulatus. Microbiology (United Kingdom), 2003, 149, 419-430.	1.8	30
64	Rrp4 and Csl4 Are Needed for Efficient Degradation but Not for Polyadenylation of Synthetic and Natural RNA by the Archaeal Exosome. Biochemistry, 2008, 47, 13158-13168.	2.5	29
65	Riboregulators and the role of Hfq in photosynthetic bacteria. RNA Biology, 2014, 11, 413-426.	3.1	29
66	Structure and function of the archaeal exosome. Wiley Interdisciplinary Reviews RNA, 2014, 5, 623-635.	6.4	29
67	Thioredoxin Is Involved in Oxygen-Regulated Formation of the Photosynthetic Apparatus of Rhodobacter sphaeroides. Journal of Bacteriology, 1999, 181, 100-106.	2.2	29
68	Beyond catalysis: vitamin <scp>B</scp>₁₂ as a cofactor in gene regulation. Molecular Microbiology, 2014, 91, 635-640.	2.5	27
69	Molecular Cloning and Expression Analysis of the <i>Rhodobacter capsulatus sodB</i> Gene, Encoding an Iron Superoxide Dismutase. Journal of Bacteriology, 1998, 180, 5413-5420.	2.2	27
70	Role of a short light, oxygen, voltage (LOV) domain protein in blue light- and singlet oxygen-dependent gene regulation in Rhodobacter sphaeroides. Microbiology (United Kingdom), 2012, 158, 368-379.	1.8	26
71	Bacterial Regulatory Networks Include Direct Contact of Response Regulator Proteins: Interaction of RegA and NtrX in <i>Rhodobacter capsulatus</i>. Journal of Molecular Microbiology and Biotechnology, 2007, 13, 126-139.	1.0	25
72	A mixed incoherent feed-forward loop contributes to the regulation of bacterial photosynthesis genes. RNA Biology, 2013, 10, 347-352.	3.1	25

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73	Turn-over of the small non-coding RNA RprA in E. coli is influenced by osmolarity. Molecular Genetics and Genomics, 2010, 284, 307-318.	2.1	24
74	The evolutionarily conserved subunits Rrp4 and Csl4 confer different substrate specificities to the archaeal exosome. FEBS Letters, 2010, 584, 2931-2936.	2.8	24
75	Heterogeneous complexes of the RNA exosome in Sulfolobus solfataricus. Biochimie, 2012, 94, 1578-1587.	2.6	24
76	Rapid Biophysical Characterization and NMR Spectroscopy Structural Analysis of Small Proteins from Bacteria and Archaea. ChemBioChem, 2020, 21, 1178-1187.	2.6	24
77	Role of the Irr Protein in the Regulation of Iron Metabolism in Rhodobacter sphaeroides. PLoS ONE, 2012, 7, e42231.	2.5	24
78	DegS and RseP Homologous Proteases Are Involved in Singlet Oxygen Dependent Activation of RpoE in Rhodobacter sphaeroides. PLoS ONE, 2013, 8, e79520.	2.5	24
79	Composition and Activity of the <i>Rhodobacter capsulatus</i> Degradosome Vary under Different Oxygen Concentrations. Journal of Molecular Microbiology and Biotechnology, 2004, 7, 148-154.	1.0	22
80	An RpoHI-Dependent Response Promotes Outgrowth after Extended Stationary Phase in the Alphaproteobacterium Rhodobacter sphaeroides. Journal of Bacteriology, 2017, 199, .	2.2	22
81	RNase E cleavage shapes the transcriptome of<i>Rhodobacter sphaeroides</i>and strongly impacts phototrophic growth. Life Science Alliance, 2018, 1, e201800080.	2.8	22
82	Subcellular localization of RNA degrading proteins and protein complexes in prokaryotes. RNA Biology, 2011, 8, 49-54.	3.1	21
83	PcrX, an sRNA derived from the 3â€²â€•UTR of the <i>Rhodobacter sphaeroides puf</i> operon modulates expression of <i>puf</i> genes encoding proteins of the bacterial photosynthetic apparatus. Molecular Microbiology, 2018, 110, 325-334.	2.5	21
84	Impact of RNA Isolation Protocols on RNA Detection by Northern Blotting. Methods in Molecular Biology, 2015, 1296, 29-38.	0.9	21
85	Response of the photosynthetic bacterium <i>Rhodobacter sphaeroides</i> to iron limitation and the role of a Fur orthologue in this response. Environmental Microbiology Reports, 2011, 3, 397-404.	2.4	20
86	Interaction of two photoreceptors in the regulation of bacterial photosynthesis genes. Nucleic Acids Research, 2012, 40, 5901-5909.	14.5	20
87	<i>Rhodobacter sphaeroides</i> CryB is a bacterial cryptochrome with (6â€“4) photolyase activity. FEBS Journal, 2016, 283, 4291-4309.	4.7	20
88	Initial events in the degradation of the polycistronic puf mRNA in Rhodobacter capsulatus and consequences for further processing steps. Molecular Microbiology, 2000, 35, 90-100.	2.5	19
89	Characterization of an Unusual LOV Domain Protein in the Î±â€Proteobacterium <i>Rhodobacter sphaeroides</i>. Photochemistry and Photobiology, 2009, 85, 1254-1259.	2.5	19
90	The expression of genes encoding proteins of B800-850 antenna pigment complex and ribosomal RNA ofRhodopseudomonas capsulata. FEBS Letters, 1984, 177, 61-65.	2.8	18

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91	Thioredoxin can influence gene expression by affecting gyrase activity. Nucleic Acids Research, 2004, 32, 4563-4575.	14.5	18
92	An Archaeal Protein with Homology to the Eukaryotic Translation Initiation Factor 5A Shows Ribonucleolytic Activity*. Journal of Biological Chemistry, 2007, 282, 13966-13976.	3.4	18
93	The archaeal exosome localizes to the membrane. FEBS Letters, 2010, 584, 2791-2795.	2.8	18
94	sRNA-mediated RNA processing regulates bacterial cell division. Nucleic Acids Research, 2021, 49, 7035-7052.	14.5	18
95	Post-Transcriptional Control of Photosynthesis Gene Expression. Advances in Photosynthesis and Respiration, 1995, , 1235-1244.	1.0	18
96	Characteristics of Pos19 â€“ A Small Coding RNA in the Oxidative Stress Response of Rhodobacter sphaeroides. PLoS ONE, 2016, 11, e0163425.	2.5	18
97	One functional subunit is sufficient for catalytic activity and substrate specificity of <i>Escherichia coli</i> endoribonuclease III artificial heterodimers. FEBS Letters, 2002, 518, 93-96.	2.8	17
98	The AppA and PpsR Proteins from Rhodobacter sphaeroides Can Establish a Redox-Dependent Signal Chain but Fail To Transmit Blue-Light Signals in Other Bacteria. Journal of Bacteriology, 2007, 189, 2274-2282.	2.2	17
99	In Vivo Sensitivity of Blue-Light-Dependent Signaling Mediated by AppA/PpsR or PrrB/PrrA in Rhodobacter sphaeroides. Journal of Bacteriology, 2009, 191, 4473-4477.	2.2	17
100	Archaeal DnaG contains a conserved N-terminal RNA-binding domain and enables tailing of rRNA by the exosome. Nucleic Acids Research, 2014, 42, 12691-12706.	14.5	16
101	The small DUF1127 protein CcaF1 from <i>Rhodobacter sphaeroides</i> is an RNA-binding protein involved in sRNA maturation and RNA turnover. Nucleic Acids Research, 2021, 49, 3003-3019.	14.5	16
102	The Conserved Dcw Gene Cluster of R. sphaeroides Is Preceded by an Uncommonly Extended 5â€™ Leader Featuring the sRNA UpsM. PLoS ONE, 2016, 11, e0165694.	2.5	16
103	Light and oxygen effects share a common regulatory DNA sequence in Rhodobacter capsulatus. Molecular Microbiology, 1991, 5, 1235-1239.	2.5	15
104	Identification of a gene required for the oxygen-regulated formation of the photosynthetic apparatus of Rhodobacter capsulatus. Molecular Microbiology, 1993, 10, 749-757.	2.5	15
105	Integration host factor affects the oxygen-regulated expression of photosynthesis genes in Rhodobacter capsulatus. Molecular Genetics and Genomics, 1998, 258, 297-305.	2.4	15
106	The ordered processing of intervening sequences in 23S rRNA ofRhodobacter sphaeroidesrequires RNase J. RNA Biology, 2012, 9, 343-350.	3.1	15
107	Oxygen-regulated expression of genes for pigment binding proteins in Rhodobacter capsulatus. Journal of Molecular Microbiology and Biotechnology, 2002, 4, 249-53.	1.0	15
108	The RSP_2889 gene product of Rhodobacter sphaeroides is a CueR homologue controlling copper-responsive genes. Microbiology (United Kingdom), 2011, 157, 3306-3313.	1.8	14

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109	Effects of the Cryptochrome CryB from Rhodobacter sphaeroides on Global Gene Expression in the Dark or Blue Light or in the Presence of Singlet Oxygen. PLoS ONE, 2012, 7, e33791.	2.5	14
110	Cloning, nucleotide sequence and characterization of the rpoD gene encoding the primary sigma factor of Rhodobacter capsulatus. Gene, 1996, 176, 177-184.	2.2	13
111	Bacteriochlorophyll-dependent expression of genes for pigment-binding proteins in Rhodobacter capsulatus involves the RegB/RegA two-component system. Molecular Genetics and Genomics, 2002, 267, 202-209.	2.1	13
112	The archaeal DnaG protein needs Csl4 for binding to the exosome and enhances its interaction with adenine-rich RNAs. RNA Biology, 2013, 10, 415-424.	3.1	13
113	IscR of <i>Rhodobacter sphaeroides</i> functions as repressor of genes for ironâ€sulfur metabolism and represents a new type of ironâ€sulfurâ€binding protein. MicrobiologyOpen, 2015, 4, 790-802.	3.0	13
114	6S RNA in Rhodobacter sphaeroides: 6S RNA and pRNA transcript levels peak in late exponential phase and gene deletion causes a high salt stress phenotype. RNA Biology, 2017, 14, 1627-1637.	3.1	13
115	Adaptation of the Alphaproteobacterium <i>Rhodobacter sphaeroides</i> to stationary phase. Environmental Microbiology, 2019, 21, 4425-4445.	3.8	12
116	Adaptation to Photooxidative Stress: Common and Special Strategies of the Alphaproteobacteria Rhodobacter sphaeroides and Rhodobacter capsulatus. Microorganisms, 2020, 8, 283.	3.6	12
117	Expression of the thioredoxin gene (trxA) inRhodobacter sphaeroides Y is regulated by oxygen. Molecular Genetics and Genomics, 1996, 250, 189-196.	2.4	11
118	RNase J is required for processing of a small number of RNAs inRhodobacter sphaeroides. RNA Biology, 2014, 11, 855-864.	3.1	11
119	Effect of Oxygen on Translation and Posttranslational Steps in Expression of Photosynthesis Genes in Rhodobacter capsulatus. Journal of Bacteriology, 1998, 180, 3983-3987.	2.2	11
120	Formation of the B800â€“850 antenna pigment-protein complex in the strain GK2 of Rhodobacter capsulatus defective in carotenoid synthesis. Biochimica Et Biophysica Acta - Bioenergetics, 1987, 892, 68-74.	1.0	10
121	Correction of the DNA Sequence of theregB Gene of Rhodobacter capsulatus with Implications for the Membrane Topology of the Sensor Kinase RegB. Journal of Bacteriology, 2000, 182, 818-820.	2.2	10
122	Both N-terminal catalytic and C-terminal RNA binding domain contribute to substrate specificity and cleavage site selection of RNase III. FEBS Letters, 2001, 509, 53-58.	2.8	10
123	CIRCE is not involved in heat-dependent transcription of groESL but in stabilization of the mRNA 5'-end in Rhodobacter capsulatus. Nucleic Acids Research, 2004, 32, 386-396.	14.5	10
124	Antisense RNA asPcrL regulates expression of photosynthesis genes in <i>Rhodobacter sphaeroides</i> by promoting RNase III-dependent turn-over of <i>puf</i> mRNA. RNA Biology, 2021, 18, 1445-1457.	3.1	10
125	Coregulation of the syntheses of bacteriochlorophyll and pigment-binding proteins in Rhodobacter capsulatus. Archives of Microbiology, 1999, 171, 198-204.	2.2	9
126	mRNA degradation in bacteria. FEMS Microbiology Reviews, 1999, 23, 353-370.	8.6	9

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127	RNase E Enzymes from Rhodobacter capsulatus and Escherichia coli Differ in Context- and Sequence-Dependent In Vivo Cleavage within the Polycistronic puf mRNA. Journal of Bacteriology, 1999, 181, 7621-7625.	2.2	9
128	Cloning and characterization of the rpoH gene of Rhodobacter capsulatus. Molecular Genetics and Genomics, 1998, 260, 212-217.	2.4	8
129	Temperature-dependent processing of the cspA mRNA in Rhodobacter capsulatus. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /O	1.8	8
130	Chapter 19 In Vivo and In Vitro Studies of RNA Degrading Activities in Archaea. Methods in Enzymology, 2008, 447, 381-416.	1.0	8
131	<i>In Vivo</i> Effects on Photosynthesis Gene Expression of Base Pair Exchanges in the Gene Encoding the Lightâ€responsive BLUF Domain of AppA in <i>Rhodobacter Sphaeroides</i>. Photochemistry and Photobiology, 2010, 86, 882-889.	2.5	8
132	Endonuclease Activity of MutL Protein of the Rhodobacter sphaeroides Mismatch Repair System. Biochemistry (Moscow), 2018, 83, 281-293.	1.5	8
133	Expression of the trxC Gene of Rhodobacter capsulatus : Response to Cellular Redox Status Is Mediated by the Transcriptional Regulator OxyR. Journal of Bacteriology, 2006, 188, 7689-7695.	2.2	7
134	The Nop5â€“L7Aâ€“fibrillarin RNP complex and a novel box C/D containing sRNA of Halobacterium salinarum NRC-1. Biochemical and Biophysical Research Communications, 2010, 394, 542-547.	2.1	7
135	A response regulator of the OmpR family is part of the regulatory network controlling the oxidative stress response of <i>Rhodobacter sphaeroides</i>. Environmental Microbiology Reports, 2019, 11, 118-128.	2.4	7
136	Impact of PNPase on the transcriptome of Rhodobacter sphaeroides and its cooperation with RNase III and RNase E. BMC Genomics, 2021, 22, 106.	2.8	7
137	A major checkpoint for protein expression in <i>Rhodobacter sphaeroides</i> during heat stress response occurs at the level of translation. Environmental Microbiology, 2021, 23, 6483-6502.	3.8	7
138	ORF90, a Gene Required for Photoreactivation in Rhodobacter capsulatus SB1003 Encodes a Cyclobutane Pyrimidine Dimer Photolyase. Photosynthesis Research, 2004, 79, 167-177.	2.9	6
139	The PhyR homolog RSP_1274 of Rhodobacter sphaeroides is involved in defense of membrane stress and has a moderate effect on RpoE (RSP_1092) activity. BMC Microbiology, 2018, 18, 18.	3.3	6
140	Atypical Processing in Domain III of 23S rRNA of Rhizobium leguminosarum ATCC 10004 T at a Position Homologous to an rRNA Fragmentation Site in Protozoa. Journal of Bacteriology, 2002, 184, 3176-3185.	2.2	5
141	Nop5 interacts with the archaeal <scp>RNA</scp> exosome. FEBS Letters, 2017, 591, 4039-4048.	2.8	5
142	Small RNAs with a Role in the Oxidative Stress Response of Bacteria. , 2012, , 1-14.		4
143	23S rRNA processing in Rhodobacter capsulatus is not involved in the oxygen-regulated formation of the bacterial photosynthetic apparatus. Archives of Microbiology, 1994, 162, 91-97.	2.2	3
144	Multiple Sense and Antisense Promoters Contribute to the Regulated Expression of the isc-suf Operon for Iron-Sulfur Cluster Assembly in Rhodobacter. Microorganisms, 2019, 7, 671.	3.6	3

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145	Regulation of Genes by Light. Advances in Photosynthesis and Respiration, 2009, , 727-741.	1.0	3
146	RNA Processing. , 0, , 158-174.		3
147	Maturation of UTR-Derived sRNAs Is Modulated during Adaptation to Different Growth Conditions. International Journal of Molecular Sciences, 2021, 22, 12260.	4.1	3
148	iCLIP analysis of RNA substrates of the archaeal exosome. BMC Genomics, 2020, 21, 797.	2.8	2
149	Interplay between formation of photosynthetic complexes and expression of genes for ironâ€"sulfur cluster assembly in Rhodobacter sphaeroides?. Photosynthesis Research, 2021, 147, 39-48.	2.9	2
150	A Complex Network of Sigma Factors and sRNA StsR Regulates Stress Responses in R. sphaeroides. International Journal of Molecular Sciences, 2021, 22, 7557.	4.1	2
151	Transcriptional Regulation of puf and puc Operon Expression in Rhodobacter Capsulatus by the DNA Binding Protein RegA. , 1999, , 127-130.		2
152	Northern Blot Detection of Tiny RNAs. Methods in Molecular Biology, 2021, 2300, 41-58.	0.9	1
153	Regulation of bacterial photosynthesis genes by oxygen and light. FEMS Microbiology Letters, 1999, 179, 1-9.	1.8	1
154	The Archaeal Exosome: Degradation and Tailing at the 3â€²-End of RNA. Nucleic Acids and Molecular Biology, 2017, , 115-128.	0.2	1
155	RNA and RNases: Dynamics and catalytic functions of magic molecules. FEMS Microbiology Reviews, 1999, 23, 255-255.	8.6	0
156	A Set of Genetic Constructs for Binase and Barstar Overproduction. BioNanoScience, 2017, 7, 222-225.	3.5	0
157	Enzymatic Analysis of Reconstituted Archaeal Exosomes. Methods in Molecular Biology, 2020, 2062, 63-79.	0.9	0