

# Gabriele Klug

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4084554/publications.pdf>

Version: 2024-02-01

157  
papers

5,482  
citations

76294

40  
h-index

110317

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.	3.7	380
2	mRNA degradation in bacteria. FEMS Microbiology Reviews, 1999, 23, 353-370.	3.9	199
3	The archaeal exosome core is a hexameric ring structure with three catalytic subunits. Nature Structural and Molecular Biology, 2005, 12, 575-581.	3.6	198
4	A single flavoprotein, AppA, integrates both redox and light signals in Rhodobacter sphaeroides. Molecular Microbiology, 2002, 45, 827-836.	1.2	164
5	Thioredoxins in bacteria: functions in oxidative stress response and regulation of thioredoxin genes. Die Naturwissenschaften, 2006, 93, 259-266.	0.6	149
6	An exosome-like complex in Sulfolobus solfataricus. EMBO Reports, 2003, 4, 889-893.	2.0	128
7	Singlet Oxygen Stress in Microorganisms. Advances in Microbial Physiology, 2011, 58, 141-173.	1.0	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.	1.6	114
9	Photo-oxidative stress in Rhodobacter sphaeroides: protective role of carotenoids and expression of selected genes. Microbiology (United Kingdom), 2005, 151, 1927-1938.	0.7	111
10	Photooxidative stress-induced and abundant small RNAs in <i>Rhodobacter sphaeroides</i> . Molecular Microbiology, 2009, 74, 1497-1512.	1.2	90
11	RNA polyadenylation in Archaea: not observed in Haloferax while the exosome polynucleotidylates RNA in Sulfolobus. EMBO Reports, 2005, 6, 1188-1193.	2.0	82
12	CryB from <i>Rhodobacter sphaeroides</i> : a unique class of cryptochromes with new cofactors. EMBO Reports, 2012, 13, 223-229.	2.0	82
13	The role of mRNA degradation in the regulated expression of bacterial photosynthesis genes. Molecular Microbiology, 1993, 9, 1-7.	1.2	81
14	An mRNA degrading complex in Rhodobacter capsulatus. Nucleic Acids Research, 2001, 29, 4581-4588.	6.5	79
15	Regulation of bacterial photosynthesis genes by oxygen and light. FEMS Microbiology Letters, 1999, 179, 1-9.	0.7	77
16	RpoH <sup>II</sup> 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.	1.0	77
17	Homoserine Lactones Influence the Reaction of Plants to Rhizobia. International Journal of Molecular Sciences, 2013, 14, 17122-17146.	1.8	77
18	Gene expression of pigment-binding proteins of the bacterial photosynthetic apparatus: Transcription and assembly in the membrane of Rhodospseudomonas capsulata. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 6485-6489.	3.3	70

#	ARTICLE	IF	CITATIONS
19	Construction of a gene bank of <i>Rhodospseudomonas capsulata</i> using a broad host range DNA cloning system. <i>Archives of Microbiology</i> , 1984, 139, 319-325.	1.0	63
20	Responses of the <i>Rhodobacter sphaeroides</i> Transcriptome to Blue Light under Semiaerobic Conditions. <i>Journal of Bacteriology</i> , 2004, 186, 7726-7735.	1.0	62
21	A eukaryotic BLUF domain mediates light-dependent gene expression in the purple bacterium <i>Rhodobacter sphaeroides</i> 2.4.1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12306-12311.	3.3	62
22	Overlapping Alternative Sigma Factor Regulons in the Response to Singlet Oxygen in <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2010, 192, 2613-2623.	1.0	61
23	Comparative analyses of the variation of the transcriptome and proteome of <i>Rhodobacter sphaeroides</i> throughout growth. <i>BMC Genomics</i> , 2019, 20, 358.	1.2	60
24	Transcriptome and Physiological Responses to Hydrogen Peroxide of the Facultatively Phototrophic Bacterium <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2005, 187, 7232-7242.	1.0	59
25	Integrative Omics Approach Discovers Dynamic and Regulatory Features of Bacterial Stress Responses. <i>PLoS Genetics</i> , 2013, 9, e1003576.	1.5	57
26	Regulation of bacterial photosynthesis genes by the small noncoding RNA PcrZ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16306-16311.	3.3	56
27	Contribution of Hfq to photooxidative stress resistance and global regulation in <i>Rhodobacter sphaeroides</i> . <i>Molecular Microbiology</i> , 2011, 80, 1479-1495.	1.2	55
28	A haem cofactor is required for redox and light signalling by the AppA protein of <i>Rhodobacter sphaeroides</i> . <i>Molecular Microbiology</i> , 2007, 64, 1090-1104.	1.2	53
29	Endonucleolytic degradation of <i>puf</i> mRNA in <i>Rhodobacter capsulatus</i> is influenced by oxygen.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 1765-1769.	3.3	51
30	Characterization of native and reconstituted exosome complexes from the hyperthermophilic archaeon <i>Sulfolobus solfataricus</i> . <i>Molecular Microbiology</i> , 2006, 62, 1076-1089.	1.2	51
31	New aspects of RNA processing in prokaryotes. <i>Current Opinion in Microbiology</i> , 2011, 14, 587-592.	2.3	49
32	Identification of an mRNA element promoting rate-limiting cleavage of the polycistronic <i>puf</i> mRNA in <i>Rhodobacter capsulatus</i> by an enzyme to RNase E. <i>Molecular Microbiology</i> , 1995, 15, 1017-1029.	1.2	46
33	Detoxification of hydrogen peroxide and expression of catalase genes in <i>Rhodobacter</i> . <i>Microbiology (United Kingdom)</i> , 2004, 150, 3451-3462.	0.7	46
34	Protein Synthesis Patterns Reveal a Complex Regulatory Response to Singlet Oxygen in <i>Rhodobacter</i> . <i>Journal of Proteome Research</i> , 2007, 6, 2460-2471.	1.8	46
35	Effect of the <i>pufQ-pufB</i> intercistronic region on <i>puf</i> mRNA stability in <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 1996, 20, 1165-1178.	1.2	44
36	RNase III Processing of Intervening Sequences Found in Helix 9 of 23S rRNA in the Alpha Subclass of Proteobacteria. <i>Journal of Bacteriology</i> , 2000, 182, 4719-4729.	1.0	43

#	ARTICLE	IF	CITATIONS
37	Dehydrogenases from All Three Domains of Life Cleave RNA. <i>Journal of Biological Chemistry</i> , 2002, 277, 46145-46150.	1.6	43
38	Blue Light Perception in Bacteria. <i>Photosynthesis Research</i> , 2004, 79, 45-57.	1.6	43
39	A Cluster of Four Homologous Small RNAs Modulates C1 Metabolism and the Pyruvate Dehydrogenase Complex in <i>Rhodobacter sphaeroides</i> under Various Stress Conditions. <i>Journal of Bacteriology</i> , 2015, 197, 1839-1852.	1.0	43
40	The influence of bacteriochlorophyll biosynthesis on formation of pigment-binding proteins and assembly of pigment protein complexes in <i>Rhodospseudomonas capsulata</i> . <i>Archives of Microbiology</i> , 1986, 146, 284-291.	1.0	42
41	A cryptochrome-like protein is involved in the regulation of photosynthesis genes in <i>Rhodobacter sphaeroides</i> . <i>Molecular Microbiology</i> , 2009, 74, 990-1003.	1.2	41
42	Chapter 7 RNA Degradation in Archaea and Gram-Negative Bacteria Different from <i>Escherichia coli</i> . <i>Progress in Molecular Biology and Translational Science</i> , 2009, 85, 275-317.	0.9	41
43	Anoxygenic photosynthesis and photooxidative stress: a particular challenge for <i>Roseobacter</i> . <i>Environmental Microbiology</i> , 2011, 13, 775-791.	1.8	41
44	Role of oxygen and the OxyR protein in the response to iron limitation in <i>Rhodobacter sphaeroides</i> . <i>BMC Genomics</i> , 2014, 15, 794.	1.2	40
45	A DNA sequence upstream of the <i>puf</i> operon of <i>Rhodobacter capsulatus</i> is involved in its oxygen-dependent regulation and functions as a protein binding site. <i>Molecular Genetics and Genomics</i> , 1991, 226-226, 167-176.	2.4	39
46	Identification and Analysis of the <i>rnc</i> Gene for RNase III in <i>Rhodobacter Capsulatus</i> . <i>Nucleic Acids Research</i> , 1996, 24, 1246-1251.	6.5	35
47	Light-dependent regulation of photosynthesis genes in <i>Rhodobacter sphaeroides</i> 2.4.1 is coordinately controlled by photosynthetic electron transport via the PrrBA two-component system and the photoreceptor AppA. <i>Molecular Microbiology</i> , 2005, 58, 903-914.	1.2	35
48	Regulation of a polyamine transporter by the conserved 3' UTR-derived sRNA SorX confers resistance to singlet oxygen and organic hydroperoxides in <i>Rhodobacter sphaeroides</i> . <i>RNA Biology</i> , 2016, 13, 988-999.	1.5	35
49	The <i>phrA</i> gene of <i>Rhodobacter sphaeroides</i> encodes a photolyase and is regulated by singlet oxygen and peroxide in a $\gamma$ E-dependent manner. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1842-1851.	0.7	35
50	Regulation of expression of photosynthesis genes in anoxygenic photosynthetic bacteria. <i>Archives of Microbiology</i> , 1993, 159, 397-404.	1.0	34
51	Thioredoxin is Essential for <i>Rhodobacter Sphaeroides</i> Growth by Aerobic and Anaerobic Respiration. <i>Microbiology (United Kingdom)</i> , 1997, 143, 83-91.	0.7	34
52	Individual <i>gvp</i> transcript segments in <i>Haloferax mediterranei</i> exhibit varying half-lives, which are differentially affected by salt concentration and growth phase. <i>Nucleic Acids Research</i> , 2002, 30, 5436-5443.	6.5	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. <i>RNA Biology</i> , 2009, 6, 584-594.	1.5	34
54	RNase E Affects the Expression of the Acyl-Homoserine Lactone Synthase Gene <i>sinI</i> in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1435-1447.	1.0	34

#	ARTICLE	IF	CITATIONS
55	The rate of decay of <i>Rhodobacter capsulatus</i> -specific puf mRNA segments is differentially affected by RNase E activity in <i>Escherichia coli</i> . <i>Gene</i> , 1992, 121, 95-102.	1.0	33
56	Different cleavage specificities of RNases III from <i>Rhodobacter capsulatus</i> and <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 1998, 26, 4446-4453.	6.5	33
57	Improved Northern Blot Detection of Small RNAs Using EDC Crosslinking and DNA/LNA Probes. <i>Methods in Molecular Biology</i> , 2015, 1296, 41-51.	0.4	33
58	The Glutathione-Glutaredoxin System in <i>Rhodobacter capsulatus</i> : Part of a Complex Regulatory Network Controlling Defense against Oxidative Stress. <i>Journal of Bacteriology</i> , 2004, 186, 6800-6808.	1.0	32
59	Global Analysis of mRNA Decay in <i>Halobacterium salinarum</i> NRC-1 at Single-Gene Resolution Using DNA Microarrays. <i>Journal of Bacteriology</i> , 2007, 189, 6936-6944.	1.0	32
60	The sRNA SorY confers resistance during photooxidative stress by affecting a metabolite transporter in <i>Rhodobacter sphaeroides</i> . <i>RNA Biology</i> , 2015, 12, 569-577.	1.5	32
61	Expression of the <i>trxA</i> gene for thioredoxin 1 in <i>Rhodobacter sphaeroides</i> during oxidative stress. <i>Archives of Microbiology</i> , 2003, 180, 484-489.	1.0	31
62	Regulation of Hydrogen Peroxide-Dependent Gene Expression in <i>Rhodobacter sphaeroides</i> : Regulatory Functions of OxyR. <i>Journal of Bacteriology</i> , 2007, 189, 3784-3792.	1.0	31
63	Thioredoxin 2 is involved in oxidative stress defence and redox-dependent expression of photosynthesis genes in <i>Rhodobacter capsulatus</i> . <i>Microbiology (United Kingdom)</i> , 2003, 149, 419-430.	0.7	30
64	Rrp4 and Csl4 Are Needed for Efficient Degradation but Not for Polyadenylation of Synthetic and Natural RNA by the Archaeal Exosome. <i>Biochemistry</i> , 2008, 47, 13158-13168.	1.2	29
65	Riboregulators and the role of Hfq in photosynthetic bacteria. <i>RNA Biology</i> , 2014, 11, 413-426.	1.5	29
66	Structure and function of the archaeal exosome. <i>Wiley Interdisciplinary Reviews RNA</i> , 2014, 5, 623-635.	3.2	29
67	Thioredoxin Is Involved in Oxygen-Regulated Formation of the Photosynthetic Apparatus of <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 1999, 181, 100-106.	1.0	29
68	Beyond catalysis: vitamin B <sub>12</sub> as a cofactor in gene regulation. <i>Molecular Microbiology</i> , 2014, 91, 635-640.	1.2	27
69	Molecular Cloning and Expression Analysis of the <i>Rhodobacter capsulatus</i> <i>sodB</i> Gene, Encoding an Iron Superoxide Dismutase. <i>Journal of Bacteriology</i> , 1998, 180, 5413-5420.	1.0	27
70	Role of a short light, oxygen, voltage (LOV) domain protein in blue light- and singlet oxygen-dependent gene regulation in <i>Rhodobacter sphaeroides</i> . <i>Microbiology (United Kingdom)</i> , 2012, 158, 368-379.	0.7	26
71	Bacterial Regulatory Networks Include Direct Contact of Response Regulator Proteins: Interaction of RegA and NtrX in <i>Rhodobacter capsulatus</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2007, 13, 126-139.	1.0	25
72	A mixed incoherent feed-forward loop contributes to the regulation of bacterial photosynthesis genes. <i>RNA Biology</i> , 2013, 10, 347-352.	1.5	25

#	ARTICLE	IF	CITATIONS
73	Turn-over of the small non-coding RNA RprA in <i>E. coli</i> is influenced by osmolarity. <i>Molecular Genetics and Genomics</i> , 2010, 284, 307-318.	1.0	24
74	The evolutionarily conserved subunits Rrp4 and Csl4 confer different substrate specificities to the archaeal exosome. <i>FEBS Letters</i> , 2010, 584, 2931-2936.	1.3	24
75	Heterogeneous complexes of the RNA exosome in <i>Sulfolobus solfataricus</i> . <i>Biochimie</i> , 2012, 94, 1578-1587.	1.3	24
76	Rapid Biophysical Characterization and NMR Spectroscopy Structural Analysis of Small Proteins from Bacteria and Archaea. <i>ChemBioChem</i> , 2020, 21, 1178-1187.	1.3	24
77	Role of the Irr Protein in the Regulation of Iron Metabolism in <i>Rhodobacter sphaeroides</i> . <i>PLoS ONE</i> , 2012, 7, e42231.	1.1	24
78	DegS and RseP Homologous Proteases Are Involved in Singlet Oxygen Dependent Activation of RpoE in <i>Rhodobacter sphaeroides</i> . <i>PLoS ONE</i> , 2013, 8, e79520.	1.1	24
79	Composition and Activity of the <i>Rhodobacter capsulatus</i> Degradosome Vary under Different Oxygen Concentrations. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2004, 7, 148-154.	1.0	22
80	An RpoHI-Dependent Response Promotes Outgrowth after Extended Stationary Phase in the Alphaproteobacterium <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	22
81	RNase E cleavage shapes the transcriptome of <i>Rhodobacter sphaeroides</i> and strongly impacts phototrophic growth. <i>Life Science Alliance</i> , 2018, 1, e201800080.	1.3	22
82	Subcellular localization of RNA degrading proteins and protein complexes in prokaryotes. <i>RNA Biology</i> , 2011, 8, 49-54.	1.5	21
83	PcrX, an sRNA derived from the 3' UTR of the <i>Rhodobacter sphaeroides</i> <i>puf</i> operon modulates expression of <i>puf</i> genes encoding proteins of the bacterial photosynthetic apparatus. <i>Molecular Microbiology</i> , 2018, 110, 325-334.	1.2	21
84	Impact of RNA Isolation Protocols on RNA Detection by Northern Blotting. <i>Methods in Molecular Biology</i> , 2015, 1296, 29-38.	0.4	21
85	Response of the photosynthetic bacterium <i>Rhodobacter sphaeroides</i> to iron limitation and the role of a Fur orthologue in this response. <i>Environmental Microbiology Reports</i> , 2011, 3, 397-404.	1.0	20
86	Interaction of two photoreceptors in the regulation of bacterial photosynthesis genes. <i>Nucleic Acids Research</i> , 2012, 40, 5901-5909.	6.5	20
87	<i>Rhodobacter sphaeroides</i> CryB is a bacterial cryptochrome with (6 <sup>+</sup> ) photolyase activity. <i>FEBS Journal</i> , 2016, 283, 4291-4309.	2.2	20
88	Initial events in the degradation of the polycistronic <i>puf</i> mRNA in <i>Rhodobacter capsulatus</i> and consequences for further processing steps. <i>Molecular Microbiology</i> , 2000, 35, 90-100.	1.2	19
89	Characterization of an Unusual LOV Domain Protein in the $\hat{\Gamma}$ -Proteobacterium <i>Rhodobacter sphaeroides</i> . <i>Photochemistry and Photobiology</i> , 2009, 85, 1254-1259.	1.3	19
90	The expression of genes encoding proteins of B800-850 antenna pigment complex and ribosomal RNA of <i>Rhodospseudomonas capsulata</i> . <i>FEBS Letters</i> , 1984, 177, 61-65.	1.3	18

#	ARTICLE	IF	CITATIONS
91	Thioredoxin can influence gene expression by affecting gyrase activity. <i>Nucleic Acids Research</i> , 2004, 32, 4563-4575.	6.5	18
92	An Archaeal Protein with Homology to the Eukaryotic Translation Initiation Factor 5A Shows Ribonucleolytic Activity*. <i>Journal of Biological Chemistry</i> , 2007, 282, 13966-13976.	1.6	18
93	The archaeal exosome localizes to the membrane. <i>FEBS Letters</i> , 2010, 584, 2791-2795.	1.3	18
94	sRNA-mediated RNA processing regulates bacterial cell division. <i>Nucleic Acids Research</i> , 2021, 49, 7035-7052.	6.5	18
95	Post-Transcriptional Control of Photosynthesis Gene Expression. <i>Advances in Photosynthesis and Respiration</i> , 1995, , 1235-1244.	1.0	18
96	Characteristics of Pos19 – A Small Coding RNA in the Oxidative Stress Response of <i>Rhodobacter sphaeroides</i> . <i>PLoS ONE</i> , 2016, 11, e0163425.	1.1	18
97	One functional subunit is sufficient for catalytic activity and substrate specificity of <i>Escherichia coli</i> endoribonuclease III artificial heterodimers. <i>FEBS Letters</i> , 2002, 518, 93-96.	1.3	17
98	The AppA and PpsR Proteins from <i>Rhodobacter sphaeroides</i> Can Establish a Redox-Dependent Signal Chain but Fail To Transmit Blue-Light Signals in Other Bacteria. <i>Journal of Bacteriology</i> , 2007, 189, 2274-2282.	1.0	17
99	In Vivo Sensitivity of Blue-Light-Dependent Signaling Mediated by AppA/PpsR or PrrB/PrrA in <i>Rhodobacter sphaeroides</i> . <i>Journal of Bacteriology</i> , 2009, 191, 4473-4477.	1.0	17
100	Archaeal DnaG contains a conserved N-terminal RNA-binding domain and enables tailing of rRNA by the exosome. <i>Nucleic Acids Research</i> , 2014, 42, 12691-12706.	6.5	16
101	The small DUF1127 protein CcaF1 from <i>Rhodobacter sphaeroides</i> is an RNA-binding protein involved in sRNA maturation and RNA turnover. <i>Nucleic Acids Research</i> , 2021, 49, 3003-3019.	6.5	16
102	The Conserved Dcw Gene Cluster of <i>R. sphaeroides</i> Is Preceded by an Uncommonly Extended 5'™ Leader Featuring the sRNA UpsM. <i>PLoS ONE</i> , 2016, 11, e0165694.	1.1	16
103	Light and oxygen effects share a common regulatory DNA sequence in <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 1991, 5, 1235-1239.	1.2	15
104	Identification of a gene required for the oxygen-regulated formation of the photosynthetic apparatus of <i>Rhodobacter capsulatus</i> . <i>Molecular Microbiology</i> , 1993, 10, 749-757.	1.2	15
105	Integration host factor affects the oxygen-regulated expression of photosynthesis genes in <i>Rhodobacter capsulatus</i> . <i>Molecular Genetics and Genomics</i> , 1998, 258, 297-305.	2.4	15
106	The ordered processing of intervening sequences in 23S rRNA of <i>Rhodobacter sphaeroides</i> requires RNase J. <i>RNA Biology</i> , 2012, 9, 343-350.	1.5	15
107	Oxygen-regulated expression of genes for pigment binding proteins in <i>Rhodobacter capsulatus</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2002, 4, 249-53.	1.0	15
108	The RSP_2889 gene product of <i>Rhodobacter sphaeroides</i> is a CueR homologue controlling copper-responsive genes. <i>Microbiology (United Kingdom)</i> , 2011, 157, 3306-3313.	0.7	14

#	ARTICLE	IF	CITATIONS
109	Effects of the Cryptochrome CryB from <i>Rhodobacter sphaeroides</i> on Global Gene Expression in the Dark or Blue Light or in the Presence of Singlet Oxygen. <i>PLoS ONE</i> , 2012, 7, e33791.	1.1	14
110	Cloning, nucleotide sequence and characterization of the <i>rpoD</i> gene encoding the primary sigma factor of <i>Rhodobacter capsulatus</i> . <i>Gene</i> , 1996, 176, 177-184.	1.0	13
111	Bacteriochlorophyll-dependent expression of genes for pigment-binding proteins in <i>Rhodobacter capsulatus</i> involves the RegB/RegA two-component system. <i>Molecular Genetics and Genomics</i> , 2002, 267, 202-209.	1.0	13
112	The archaeal DnaG protein needs Csl4 for binding to the exosome and enhances its interaction with adenine-rich RNAs. <i>RNA Biology</i> , 2013, 10, 415-424.	1.5	13
113	IscR of <i>Rhodobacter sphaeroides</i> functions as repressor of genes for iron-sulfur metabolism and represents a new type of iron-sulfur-binding protein. <i>MicrobiologyOpen</i> , 2015, 4, 790-802.	1.2	13
114	6S RNA in <i>Rhodobacter sphaeroides</i> : 6S RNA and pRNA transcript levels peak in late exponential phase and gene deletion causes a high salt stress phenotype. <i>RNA Biology</i> , 2017, 14, 1627-1637.	1.5	13
115	Adaptation of the Alphaproteobacterium <i>Rhodobacter sphaeroides</i> to stationary phase. <i>Environmental Microbiology</i> , 2019, 21, 4425-4445.	1.8	12
116	Adaptation to Photooxidative Stress: Common and Special Strategies of the Alphaproteobacteria <i>Rhodobacter sphaeroides</i> and <i>Rhodobacter capsulatus</i> . <i>Microorganisms</i> , 2020, 8, 283.	1.6	12
117	Expression of the thioredoxin gene ( <i>trxA</i> ) in <i>Rhodobacter sphaeroides</i> Y is regulated by oxygen. <i>Molecular Genetics and Genomics</i> , 1996, 250, 189-196.	2.4	11
118	RNase J is required for processing of a small number of RNAs in <i>Rhodobacter sphaeroides</i> . <i>RNA Biology</i> , 2014, 11, 855-864.	1.5	11
119	Effect of Oxygen on Translation and Posttranslational Steps in Expression of Photosynthesis Genes in <i>Rhodobacter capsulatus</i> . <i>Journal of Bacteriology</i> , 1998, 180, 3983-3987.	1.0	11
120	Formation of the B800-850 antenna pigment-protein complex in the strain GK2 of <i>Rhodobacter capsulatus</i> defective in carotenoid synthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987, 892, 68-74.	0.5	10
121	Correction of the DNA Sequence of the <i>regB</i> Gene of <i>Rhodobacter capsulatus</i> with Implications for the Membrane Topology of the Sensor Kinase RegB. <i>Journal of Bacteriology</i> , 2000, 182, 818-820.	1.0	10
122	Both N-terminal catalytic and C-terminal RNA binding domain contribute to substrate specificity and cleavage site selection of RNase III. <i>FEBS Letters</i> , 2001, 509, 53-58.	1.3	10
123	CIRCE is not involved in heat-dependent transcription of <i>groESL</i> but in stabilization of the mRNA 5'-end in <i>Rhodobacter capsulatus</i> . <i>Nucleic Acids Research</i> , 2004, 32, 386-396.	6.5	10
124	Antisense RNA as PcrL regulates expression of photosynthesis genes in <i>Rhodobacter sphaeroides</i> by promoting RNase III-dependent turn-over of <i>puf</i> mRNA. <i>RNA Biology</i> , 2021, 18, 1445-1457.	1.5	10
125	Coregulation of the syntheses of bacteriochlorophyll and pigment-binding proteins in <i>Rhodobacter capsulatus</i> . <i>Archives of Microbiology</i> , 1999, 171, 198-204.	1.0	9
126	mRNA degradation in bacteria. <i>FEMS Microbiology Reviews</i> , 1999, 23, 353-370.	3.9	9



#	ARTICLE	IF	CITATIONS
127	RNase E Enzymes from <i>Rhodobacter capsulatus</i> and <i>Escherichia coli</i> Differ in Context- and Sequence-Dependent In Vivo Cleavage within the Polycistronic <i>puf</i> mRNA. <i>Journal of Bacteriology</i> , 1999, 181, 7621-7625.	1.0	9
128	Cloning and characterization of the <i>rpoH</i> gene of <i>Rhodobacter capsulatus</i> . <i>Molecular Genetics and Genomics</i> , 1998, 260, 212-217.	2.4	8
129	Temperature-dependent processing of the <i>cspA</i> mRNA in <i>Rhodobacter capsulatus</i> . <i>Microbiology (United Kingdom)</i> , 2000, 154, 1141-1148.	0.7	8
130	Chapter 19 In Vivo and In Vitro Studies of RNA Degrading Activities in Archaea. <i>Methods in Enzymology</i> , 2008, 447, 381-416.	0.4	8
131	In Vivo Effects on Photosynthesis Gene Expression of Base Pair Exchanges in the Gene Encoding the Light-Responsive BLUF Domain of AppA in <i>Rhodobacter Sphaeroides</i> . <i>Photochemistry and Photobiology</i> , 2010, 86, 882-889.	1.3	8
132	Endonuclease Activity of MutL Protein of the <i>Rhodobacter sphaeroides</i> Mismatch Repair System. <i>Biochemistry (Moscow)</i> , 2018, 83, 281-293.	0.7	8
133	Expression of the <i>trxC</i> Gene of <i>Rhodobacter capsulatus</i> : Response to Cellular Redox Status Is Mediated by the Transcriptional Regulator OxyR. <i>Journal of Bacteriology</i> , 2006, 188, 7689-7695.	1.0	7
134	The Nop5-7 fibrillar RNP complex and a novel box C/D containing sRNA of <i>Halobacterium salinarum</i> NRC-1. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 542-547.	1.0	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> . <i>Environmental Microbiology Reports</i> , 2019, 11, 118-128.	1.0	7
136	Impact of PNPase on the transcriptome of <i>Rhodobacter sphaeroides</i> and its cooperation with RNase III and RNase E. <i>BMC Genomics</i> , 2021, 22, 106.	1.2	7
137	A major checkpoint for protein expression in <i>Rhodobacter sphaeroides</i> during heat stress response occurs at the level of translation. <i>Environmental Microbiology</i> , 2021, 23, 6483-6502.	1.8	7
138	ORF90, a Gene Required for Photoreactivation in <i>Rhodobacter capsulatus</i> SB1003 Encodes a Cyclobutane Pyrimidine Dimer Photolyase. <i>Photosynthesis Research</i> , 2004, 79, 167-177.	1.6	6
139	The PhyR homolog RSP_1274 of <i>Rhodobacter sphaeroides</i> is involved in defense of membrane stress and has a moderate effect on RpoE (RSP_1092) activity. <i>BMC Microbiology</i> , 2018, 18, 18.	1.3	6
140	Atypical Processing in Domain III of 23S rRNA of <i>Rhizobium leguminosarum</i> ATCC 10004 T at a Position Homologous to an rRNA Fragmentation Site in Protozoa. <i>Journal of Bacteriology</i> , 2002, 184, 3176-3185.	1.0	5
141	Nop5 interacts with the archaeal <i>scp</i> RNA exosome. <i>FEBS Letters</i> , 2017, 591, 4039-4048.	1.3	5
142	Small RNAs with a Role in the Oxidative Stress Response of Bacteria. , 2012, , 1-14.		4
143	23S rRNA processing in <i>Rhodobacter capsulatus</i> is not involved in the oxygen-regulated formation of the bacterial photosynthetic apparatus. <i>Archives of Microbiology</i> , 1994, 162, 91-97.	1.0	3
144	Multiple Sense and Antisense Promoters Contribute to the Regulated Expression of the <i>isc-suf</i> Operon for Iron-Sulfur Cluster Assembly in <i>Rhodobacter</i> . <i>Microorganisms</i> , 2019, 7, 671.	1.6	3

#	ARTICLE	IF	CITATIONS
145	Regulation of Genes by Light. <i>Advances in Photosynthesis and Respiration</i> , 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. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12260.	1.8	3
148	iCLIP analysis of RNA substrates of the archaeal exosome. <i>BMC Genomics</i> , 2020, 21, 797.	1.2	2
149	Interplay between formation of photosynthetic complexes and expression of genes for iron-sulfur cluster assembly in <i>Rhodobacter sphaeroides</i> ?. <i>Photosynthesis Research</i> , 2021, 147, 39-48.	1.6	2
150	A Complex Network of Sigma Factors and sRNA StsR Regulates Stress Responses in <i>R. sphaeroides</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 7557.	1.8	2
151	Transcriptional Regulation of puf and puc Operon Expression in <i>Rhodobacter Capsulatus</i> by the DNA Binding Protein RegA. , 1999, , 127-130.		2
152	Northern Blot Detection of Tiny RNAs. <i>Methods in Molecular Biology</i> , 2021, 2300, 41-58.	0.4	1
153	Regulation of bacterial photosynthesis genes by oxygen and light. <i>FEMS Microbiology Letters</i> , 1999, 179, 1-9.	0.7	1
154	The Archaeal Exosome: Degradation and Tailing at the 3'-End of RNA. <i>Nucleic Acids and Molecular Biology</i> , 2017, , 115-128.	0.2	1
155	RNA and RNases: Dynamics and catalytic functions of magic molecules. <i>FEMS Microbiology Reviews</i> , 1999, 23, 255-255.	3.9	0
156	A Set of Genetic Constructs for Binase and Barstar Overproduction. <i>BioNanoScience</i> , 2017, 7, 222-225.	1.5	0
157	Enzymatic Analysis of Reconstituted Archaeal Exosomes. <i>Methods in Molecular Biology</i> , 2020, 2062, 63-79.	0.4	0