

Akira Muto

List of Publications by Year in descending order

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18
papers

626
citations

840776

11
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

529
citing authors

#	ARTICLE	IF	CITATIONS
1	Requirement of transfer-messenger RNA for the growth of <i>Bacillus subtilis</i> under stresses. <i>Genes To Cells</i> , 2000, 5, 627-635.	1.2	110
2	In vitro Trans Translation mediated by alanine-charged 10sa RNA. <i>Journal of Molecular Biology</i> , 1997, 268, 803-808.	4.2	93
3	tmRNA-mediated trans-translation as the major ribosome rescue system in a bacterial cell. <i>Frontiers in Genetics</i> , 2014, 5, 66.	2.3	62
4	Three of four pseudoknots in tmRNA are interchangeable and are substitutable with single-stranded RNAs. <i>FEBS Letters</i> , 2000, 470, 345-349.	2.8	59
5	Determinants on tmRNA for initiating efficient and precise trans-translation: Some mutations upstream of the tag-encoding sequence of <i>Escherichia coli</i> tmRNA shift the initiation point of trans-translation in vitro. <i>Rna</i> , 2001, 7, 999-1012.	3.5	54
6	tRNADB-CE: tRNA gene database well-timed in the era of big sequence data. <i>Frontiers in Genetics</i> , 2014, 5, 114.	2.3	53
7	Ribosome rescue systems in bacteria. <i>Biochimie</i> , 2015, 114, 102-112.	2.6	48
8	Interaction of 10Sa RNA with ribosomes in <i>Escherichia coli</i> . <i>FEBS Letters</i> , 1996, 399, 223-226.	2.8	39
9	ArfA recognizes the lack of mRNA in the mRNA channel after RF2 binding for ribosome rescue. <i>Nucleic Acids Research</i> , 2014, 42, 13339-13352.	14.5	33
10	RsgA couples the maturation state of the 30S ribosomal decoding center to activation of its GTPase pocket. <i>Nucleic Acids Research</i> , 2017, 45, 6945-6959.	14.5	29
11	Rejection of tmRNA-SmpB after GTP hydrolysis by EF-Tu on ribosomes stalled on intact mRNA. <i>Rna</i> , 2014, 20, 1706-1714.	3.5	13
12	(p)ppGpp-dependent and -independent pathways for salt tolerance in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2016, 160, 19-26.	1.7	12
13	Mechanism of trans-translation revealed by in vitro studies. <i>Frontiers in Microbiology</i> , 2014, 5, 65.	3.5	9
14	RNase P RNA of <i>Mycoplasma capricolum</i> . <i>Molecular Biology Reports</i> , 1996, 22, 125-129.	2.3	4
15	Primary structures of hemagglutinin-esterase and spike glycoproteins of murine coronavirus DVIM. <i>Virus Genes</i> , 1998, 17, 123-128.	1.6	3
16	Involvement of GcvB small RNA in intrinsic resistance to multiple aminoglycoside antibiotics in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2021, 169, 485-489.	1.7	3
17	A leaderless mRNA including tRNA-like sequence encodes a small peptide that regulates the expression of GcvB small RNA in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2022, 171, 459-465.	1.7	2
18	Molecular mimicry of tRNA / mRNA during trans-translation. <i>FASEB Journal</i> , 2010, 24, 654.2.	0.5	0