

Magdalena Villarroya

List of Publications by Year in descending order

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22
papers

974
citations

516710

16
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Basis for Fe-S Cluster Assembly and tRNA Thiolation Mediated by IscS Protein-Protein Interactions. <i>PLoS Biology</i> , 2010, 8, e1000354.	5.6	224
2	The <i>Escherichia coli</i> trmE (mnmE) gene, involved in tRNA modification, codes for an evolutionarily conserved GTPase with unusual biochemical properties. <i>EMBO Journal</i> , 1999, 18, 7063-7076.	7.8	94
3	The <i>Escherichia coli</i> RlmN methyltransferase is a dual-specificity enzyme that modifies both rRNA and tRNA and controls translational accuracy. <i>Rna</i> , 2012, 18, 1783-1795.	3.5	81
4	YibK is the 2-O ⁶ -methyltransferase TrmL that modifies the wobble nucleotide in <i>Escherichia coli</i> tRNA ^{Leu} isoacceptors. <i>Rna</i> , 2010, 16, 2131-2143.	3.5	67
5	Enzymology of tRNA modification in the bacterial MnmEG pathway. <i>Biochimie</i> , 2012, 94, 1510-1520.	2.6	63
6	Modification of the wobble uridine in bacterial and mitochondrial tRNAs reading NNA/NNG triplets of 2-codon boxes. <i>RNA Biology</i> , 2014, 11, 1495-1507.	3.1	55
7	Characterization of Human GTPBP3, a GTP-Binding Protein Involved in Mitochondrial tRNA Modification. <i>Molecular and Cellular Biology</i> , 2008, 28, 7514-7531.	2.3	54
8	The GTPase Activity and C-terminal Cysteine of the <i>Escherichia coli</i> MnmE Protein Are Essential for Its tRNA Modifying Function. <i>Journal of Biological Chemistry</i> , 2003, 278, 28378-28387.	3.4	53
9	Structure-Function Analysis of <i>Escherichia coli</i> MnmG (GidA), a Highly Conserved tRNA-Modifying Enzyme. <i>Journal of Bacteriology</i> , 2009, 191, 7614-7619.	2.2	45
10	Stationary phase induction of dnaN and recF, two genes of <i>Escherichia coli</i> involved in DNA replication and repair. <i>EMBO Journal</i> , 1998, 17, 1829-1837.	7.8	38
11	Effects of Mutagenesis in the Switch I Region and Conserved Arginines of <i>Escherichia coli</i> MnmE Protein, A GTPase Involved in tRNA Modification. <i>Journal of Biological Chemistry</i> , 2005, 280, 30660-30670.	3.4	33
12	The MELAS mutation m.3243A>G alters the expression of mitochondrial tRNA fragments. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 1433-1449.	4.1	24
13	Regulation of expression and catalytic activity of <i>Escherichia coli</i> RsmG methyltransferase. <i>Rna</i> , 2012, 18, 795-806.	3.5	23
14	Defects in the mitochondrial-tRNA modification enzymes MTO1 and GTPBP3 promote different metabolic reprogramming through a HIF-PPAR β -UCP2-AMPK axis. <i>Scientific Reports</i> , 2018, 8, 1163.	3.3	23
15	Defective Expression of the Mitochondrial-tRNA Modifying Enzyme GTPBP3 Triggers AMPK-Mediated Adaptive Responses Involving Complex I Assembly Factors, Uncoupling Protein 2, and the Mitochondrial Pyruvate Carrier. <i>PLoS ONE</i> , 2015, 10, e0144273.	2.5	23
16	The tRNA-modifying function of MnmE is controlled by post-hydrolysis steps of its GTPase cycle. <i>Nucleic Acids Research</i> , 2013, 41, 6190-6208.	14.5	17
17	The MELAS mutation m.3243A>G promotes reactivation of fetal cardiac genes and an epithelial-mesenchymal transition-like program via dysregulation of miRNAs. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3022-3037.	3.8	12
18	Mutaciones en genes modificadores de ARN ribosómico y la resistencia a aminoglucósidos: el caso del gen rsmG. <i>Biomedica</i> , 2013, 34, 41.	0.7	11

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19	Mutations in the <i>Caenorhabditis elegans</i> orthologs of human genes required for mitochondrial tRNA modification cause similar electron transport chain defects but different nuclear responses. <i>PLoS Genetics</i> , 2017, 13, e1006921.	3.5	11
20	microRNA-mediated differential expression of TRMU, GTPBP3 and MTO1 in cell models of mitochondrial-DNA diseases. <i>Scientific Reports</i> , 2017, 7, 6209.	3.3	9
21	<i>Bacillus subtilis</i> exhibits MnmC-like tRNA modification activities. <i>RNA Biology</i> , 2018, 15, 1167-1173.	3.1	9
22	An Alternative Homodimerization Interface of MnmG Reveals a Conformational Dynamics that Is Essential for Its tRNA Modification Function. <i>Journal of Molecular Biology</i> , 2018, 430, 2822-2842.	4.2	5