

Franck Martin

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,635
citations

331670

21
h-index

315739

38
g-index

53
all docs

53
docs citations

53
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	RACK1 Controls IRES-Mediated Translation of Viruses. <i>Cell</i> , 2014, 159, 1086-1095.	28.9	149
2	The gene for histone RNA hairpin binding protein is located on human chromosome 4 and encodes a novel type of RNA binding protein. <i>EMBO Journal</i> , 1997, 16, 769-778.	7.8	142
3	CUG initiation and frameshifting enable production of dipeptide repeat proteins from ALS/FTD C9ORF72 transcripts. <i>Nature Communications</i> , 2018, 9, 152.	12.8	123
4	The viral protein NSP1 acts as a ribosome gatekeeper for shutting down host translation and fostering SARS-CoV-2 translation. <i>Rna</i> , 2021, 27, 253-264.	3.5	112
5	Secondary structure of the SARS-CoV-2 5' UTR. <i>RNA Biology</i> , 2021, 18, 447-456.	3.1	104
6	Cap-Assisted Internal Initiation of Translation of Histone H4. <i>Molecular Cell</i> , 2011, 41, 197-209.	9.7	93
7	Viral internal ribosomal entry sites: four classes for one goal. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018, 9, e1458.	6.4	83
8	Role of dimerization in yeast aspartyl-tRNA synthetase and importance of the class II invariant proline.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 10816-10820.	7.1	63
9	Expression of metazoan replication-dependent histone genes. <i>Biochimie</i> , 2005, 87, 827-834.	2.6	52
10	Hypermethylated-capped selenoprotein mRNAs in mammals. <i>Nucleic Acids Research</i> , 2014, 42, 8663-8677.	14.5	45
11	The class II aminoacyl-tRNA synthetases and their active site: Evolutionary conservation of an ATP binding site. <i>Journal of Molecular Evolution</i> , 1995, 40, 499-508.	1.8	44
12	Ribosomal 18S rRNA base pairs with mRNA during eukaryotic translation initiation. <i>Nature Communications</i> , 2016, 7, 12622.	12.8	41
13	The IRES 5' UTR of the dicistrovirus cricket paralysis virus is a type III IRES containing an essential pseudoknot structure. <i>Nucleic Acids Research</i> , 2017, 45, 8993-9004.	14.5	41
14	Efficient and Accurate Translation Initiation Directed by TISU Involves RPS3 and RPS10e Binding and Differential Eukaryotic Initiation Factor 1A Regulation. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	33
15	A variant in <i>MRPS14</i> (uS14m) causes perinatal hypertrophic cardiomyopathy with neonatal lactic acidosis, growth retardation, dysmorphic features and neurological involvement. <i>Human Molecular Genetics</i> , 2019, 28, 639-649.	2.9	33
16	Kinetic Analysis of the Effect on Fab Binding of Identical Substitutions in a Peptide and Its Parent Protein. <i>Biochemistry</i> , 1999, 38, 3530-3537.	2.5	29
17	Positive and negative mutant selection in the human histone hairpin-binding protein using the yeast three-hybrid system. <i>Nucleic Acids Research</i> , 2000, 28, 1594-1603.	14.5	29
18	Leucyl-tRNA Synthetase Consisting of Two Subunits from Hyperthermophilic Bacteria <i>Aquifex aeolicus</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 41590-41596.	3.4	28

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19	Results and prospects of the yeast three-hybrid system. <i>FEBS Letters</i> , 2004, 556, 7-12.	2.8	28
20	Overproduction and Purification of Native and Queuine-lacking <i>Escherichia coli</i> tRNA ^{Asp} Role of the Wobble Base in tRNA ^{Asp} Acylation. <i>Journal of Molecular Biology</i> , 1993, 234, 965-974.	4.2	27
21	Purification of mRNA-programmed translation initiation complexes suitable for mass spectrometry analysis. <i>Proteomics</i> , 2015, 15, 2417-2425.	2.2	25
22	Mirror image alternative interaction patterns of the same tRNA with either class I arginyl-tRNA synthetase or class II aspartyl-tRNA synthetase. <i>Nucleic Acids Research</i> , 1997, 25, 4899-4906.	14.5	23
23	Crystallization of aspartyl-tRNA synthetase-tRNA ^{Asp} complex from <i>Escherichia coli</i> and first crystallographic results. <i>Journal of Molecular Biology</i> , 1992, 224, 1171-1173.	4.2	19
24	Fifteen years of the yeast three-hybrid system: RNA-protein interactions under investigation. <i>Methods</i> , 2012, 58, 367-375.	3.8	18
25	Cap analogs containing 6-thioguanosine reagents for the synthesis of mRNAs selectively photo-crosslinkable with cap-binding biomolecules. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4841-4847.	2.8	17
26	The nature of the purine at position 34 in tRNAs of 4-codon boxes is correlated with nucleotides at positions 32 and 38 to maintain decoding fidelity. <i>Nucleic Acids Research</i> , 2020, 48, 6170-6183.	14.5	17
27	In vivo selection of lethal mutations reveals two functional domains in arginyl-tRNA synthetase. <i>Rna</i> , 2000, 6, 434-448.	3.5	15
28	Correlated sequence signatures are present within the genomic 5'UTR RNA and NSP1 protein in coronaviruses. <i>Rna</i> , 2022, 28, 729-741.	3.5	15
29	A yeast knockout strain to discriminate between active and inactive tRNA molecules. <i>Nucleic Acids Research</i> , 2003, 31, 4729-4737.	14.5	14
30	Rapid purification of ribosomal particles assembled on histone H4 mRNA: a new method based on mRNA-DNA chimaeras. <i>Biochemical Journal</i> , 2013, 449, 719-728.	3.7	14
31	Two distinct domains of the \hat{A} subunit of <i>Aquifex aeolicus</i> leucyl-tRNA synthetase are involved in tRNA binding as revealed by a three-hybrid selection. <i>Nucleic Acids Research</i> , 2004, 32, 3294-3303.	14.5	13
32	Mutation and Evolution of the Magnesium-Binding Site of a Class II Aminoacyl-tRNA Synthetase. <i>Biochemistry</i> , 2004, 43, 7028-7037.	2.5	12
33	Characterization of a thermosensitive <i>Escherichia coli</i> aspartyl-tRNA synthetase mutant. <i>Journal of Bacteriology</i> , 1997, 179, 3691-3696.	2.2	11
34	Critical residues for RNA discrimination of the histone hairpin binding protein (HBP) investigated by the yeast three-hybrid system. <i>FEBS Letters</i> , 2004, 556, 265-270.	2.8	11
35	Binding of human SLBP on the 3'UTR of histone precursor H4-12 mRNA induces structural rearrangements that enable U7 snRNA anchoring. <i>Nucleic Acids Research</i> , 2006, 34, 4987-4995.	14.5	11
36	Translation inhibitory elements from <i>Hoxa3</i> and <i>Hoxa11</i> mRNAs use uORFs for translation inhibition. <i>ELife</i> , 2021, 10, .	6.0	10

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37	Viral and cellular translation during SARS-CoV-2 infection. <i>FEBS Open Bio</i> , 2022, 12, 1584-1601.	2.3	10
38	Characterization of the Calf Thymus Hairpin-binding Factor Involved in Histone Pre-mRNA 3' End Processing. <i>Journal of Biological Chemistry</i> , 1997, 272, 10435-10441.	3.4	8
39	Single amino acid changes in AspRS reveal alternative routes for expanding its tRNA repertoire in vivo. <i>Nucleic Acids Research</i> , 2004, 32, 4081-4089.	14.5	8
40	Enzymes Assembled from <i>Aquifex aeolicus</i> and <i>Escherichia coli</i> Leucyl-tRNA Synthetases. <i>Biochemistry</i> , 2003, 42, 7694-7700.	2.5	7
41	Genetic selection for active <i>E. coli</i> amber tRNAs exclusively led to glutamine inserting suppressors. <i>Nucleic Acids Research</i> , 1995, 23, 779-784.	14.5	6
42	Tracking the m ⁷ G-cap during translation initiation by crosslinking methods. <i>Methods</i> , 2018, 137, 3-10.	3.8	6
43	START: Structure-Assisted RNA Translation. <i>RNA Biology</i> , 2018, 15, 1250-1253.	3.1	6
44	Tau mRNA Metabolism in Neurodegenerative Diseases: A Tangle Journey. <i>Biomedicines</i> , 2022, 10, 241.	3.2	6
45	Released selective pressure on a structural domain gives new insights on the functional relaxation of mitochondrial aspartyl-tRNA synthetase. <i>Biochimie</i> , 2014, 100, 18-26.	2.6	5
46	eIF3 interacts with histone H4 messenger RNA to regulate its translation. <i>Journal of Biological Chemistry</i> , 2021, 296, 100578.	3.4	5
47	RNA Secondary Structure Study by Chemical Probing Methods Using DMS and CMCT. <i>Methods in Molecular Biology</i> , 2021, 2300, 241-250.	0.9	4
48	A tRNA-mimic Strategy to Explore the Role of G34 of tRNA ^{Gly} in Translation and Codon Frameshifting. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3911.	4.1	2
49	How Many Messenger RNAs Can Be Translated by the START Mechanism?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8373.	4.1	2
50	Synthetic Capped mRNAs for Cap-Specific Photo-Cross-Linking Experiments. <i>Methods in Molecular Biology</i> , 2016, 1428, 31-43.	0.9	0