

# Juan D Alfonso

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,665  
citations

361296

20  
h-index

302012

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1711  
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of <sc>RNA</sc> modifications: From cells to muscle physiology. Wiley Interdisciplinary Reviews RNA, 2022, 13, e1700.	3.2	8
2	Characterization of ADAT2/3 molecules in <i>Trypanosoma cruzi</i> and regulation of mucin gene expression by tRNA editing. Biochemical Journal, 2022, 479, 561-580.	1.7	4
3	Preferential import of queuosine-modified tRNAs into <i>Trypanosoma brucei</i> mitochondrion is critical for organellar protein synthesis. Nucleic Acids Research, 2021, 49, 8247-8260.	6.5	15
4	METTLing in the right place: METTL8 is a mitochondrial tRNA-specific methyltransferase. Molecular Cell, 2021, 81, 4765-4767.	4.5	3
5	Dynamic queuosine changes in tRNA couple nutrient levels to codon choice in <i>Trypanosoma brucei</i>. Nucleic Acids Research, 2021, 49, 12986-12999.	6.5	13
6	From canonical to modified nucleotides: balancing translation and metabolism. Critical Reviews in Biochemistry and Molecular Biology, 2020, 55, 525-540.	2.3	6
7	Lexis and Grammar of Mitochondrial RNA Processing in Trypanosomes. Trends in Parasitology, 2020, 36, 337-355.	1.5	71
8	RNA-Binding Proteins and Their Targets in Trypanosoma brucei: Single Nucleotide Resolution Using iCLIP and iCLAP. Methods in Molecular Biology, 2020, 2116, 303-323.	0.4	0
9	The general mRNA exporters Mex67 and Mtr2 play distinct roles in nuclear export of tRNAs in Trypanosoma brucei. Nucleic Acids Research, 2019, 47, 8620-8631.	6.5	15
10	Multi-Substrate Specificity and the Evolutionary Basis for Interdependence in tRNA Editing and Methylation Enzymes. Frontiers in Genetics, 2019, 10, 104.	1.1	19
11	Binding synergy as an essential step for tRNA editing and modification enzyme codependence in <i>Trypanosoma brucei</i>. Rna, 2018, 24, 56-66.	1.6	9
12	The role of intracellular compartmentalization on tRNA processing and modification. RNA Biology, 2018, 15, 554-566.	1.5	22
13	Retrograde nuclear transport from the cytoplasm is required for tRNA<sup>Tyr</sup> maturation in <i>T. brucei</i>. RNA Biology, 2018, 15, 528-536.	1.5	22
14	TbUTP10, a protein involved in early stages of pre-18S rRNA processing in Trypanosoma brucei. Molecular and Biochemical Parasitology, 2018, 225, 84-93.	0.5	7
15	How the intracellular partitioning of tRNA and tRNA modification enzymes affects mitochondrial function. IUBMB Life, 2018, 70, 1207-1213.	1.5	9
16	Editing and methylation at a single site by functionally interdependent activities. Nature, 2017, 542, 494-497.	13.7	54
17	The Evolution of Substrate Specificity by tRNA Modification Enzymes. The Enzymes, 2017, 41, 51-88.	0.7	16
18	Identification of 2-methylthio cyclic N6-threonylcarbamoyladenine (ms2ct6A) as a novel RNA modification at position 37 of tRNAs. Nucleic Acids Research, 2017, 45, 2124-2136.	6.5	48

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19	From Prebiotics to Probiotics: The Evolution and Functions of tRNA Modifications. <i>Life</i> , 2016, 6, 13.	1.1	18
20	A tRNA methyltransferase paralog is important for ribosome stability and cell division in <i>Trypanosoma brucei</i> . <i>Scientific Reports</i> , 2016, 6, 21438.	1.6	9
21	The essential function of the <i>Trypanosoma brucei</i> Trl1 homolog in procyclic cells is maturation of the intron-containing tRNA <sup>Tyr</sup> . <i>Rna</i> , 2016, 22, 1190-1199.	1.6	23
22	The reverse transcription signature of N <sup>1</sup> -methyladenosine in RNA-Seq is sequence dependent. <i>Nucleic Acids Research</i> , 2015, 43, gkv895.	6.5	163
23	RNAi, the guiding principle and keeping family happy. <i>Rna</i> , 2015, 21, 555-556.	1.6	0
24	A common tRNA modification at an unusual location: the discovery of wyosine biosynthesis in mitochondria. <i>Nucleic Acids Research</i> , 2015, 43, 4262-4273.	6.5	22
25	Cutting, dicing, healing and sealing: the molecular surgery of tRNA. <i>Wiley Interdisciplinary Reviews RNA</i> , 2015, 6, 337-349.	3.2	30
26	RoboOligo: software for mass spectrometry data to support manual and de novo sequencing of post-transcriptionally modified ribonucleic acids. <i>Nucleic Acids Research</i> , 2015, 43, e64-e64.	6.5	40
27	Posttranscriptional RNA Modifications: Playing Metabolic Games in a Cell's Chemical Legoland. <i>Chemistry and Biology</i> , 2014, 21, 174-185.	6.2	178
28	Transfer RNA modifications: nature's combinatorial chemistry playground. <i>Wiley Interdisciplinary Reviews RNA</i> , 2013, 4, 35-48.	3.2	250
29	The <i>T. brucei</i> TRM5 methyltransferase plays an essential role in mitochondrial protein synthesis and function. <i>Rna</i> , 2013, 19, 649-658.	1.6	24
30	Modified tRNA: Fully Equipped and Ready to Strike. <i>Journal of Molecular Biology</i> , 2012, 416, 465-466.	2.0	0
31	Assembling Fe/S-clusters and modifying tRNAs: ancient co-factors meet ancient adaptors. <i>Trends in Parasitology</i> , 2011, 27, 235-238.	1.5	13
32	A Single Zinc Ion Is Sufficient for an Active <i>Trypanosoma brucei</i> tRNA Editing Deaminase. <i>Journal of Biological Chemistry</i> , 2011, 286, 20366-20374.	1.6	18
33	The C-terminal end of the <i>Trypanosoma brucei</i> editing deaminase plays a critical role in tRNA binding. <i>Rna</i> , 2011, 17, 1296-1306.	1.6	20
34	Analysis of tRNA Editing in Native and Synthetic Substrates. <i>Methods in Molecular Biology</i> , 2011, 718, 209-226.	0.4	14
35	Thiolation Controls Cytoplasmic tRNA Stability and Acts as a Negative Determinant for tRNA Editing in Mitochondria. <i>Journal of Biological Chemistry</i> , 2009, 284, 23947-23953.	1.6	39
36	Mitochondrial tRNA import – the challenge to understand has just begun. <i>Biological Chemistry</i> , 2009, 390, 717-722.	1.2	92

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37	Mitochondrial tRNA import in <i>Trypanosoma brucei</i> is independent of thiolation and the Rieske protein. <i>Rna</i> , 2009, 15, 1398-1406.	1.6	31
38	Mammalian mitochondria have the innate ability to import tRNAs by a mechanism distinct from protein import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9186-9191.	3.3	135
39	C to U editing at position 32 of the anticodon loop precedes tRNA 5' leader removal in trypanosomatids. <i>Nucleic Acids Research</i> , 2007, 35, 6740-6749.	6.5	24
40	An adenosine-to-inosine tRNA-editing enzyme that can perform C-to-U deamination of DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7821-7826.	3.3	89
41	C to U Editing Stimulates A to I Editing in the Anticodon Loop of a Cytoplasmic Threonyl tRNA in <i>Trypanosoma brucei</i> *. <i>Journal of Biological Chemistry</i> , 2006, 281, 115-120.	1.6	45
42	Modification of the universally unmodified uridine-33 in a mitochondria-imported edited tRNA and the role of the anticodon arm structure on editing efficiency. <i>Rna</i> , 2002, 8, 752-761.	1.6	47
43	Transfer RNA Editing Enzymes; At the Crossroads of Affinity and Specificity. , 0, , 121-145.		0