## William H Mcclain

## List of Publications by Citations

Source: https://exaly.com/author-pdf/12033670/william-h-mcclain-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55	1,792	24	41
papers	citations	h-index	g-index
55	1,873 ext. citations	10.8	4·37
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
55	The G x U wobble base pair. A fundamental building block of RNA structure crucial to RNA function in diverse biological systems. <i>EMBO Reports</i> , <b>2000</b> , 1, 18-23	6.5	318
54	Rules that govern tRNA identity in protein synthesis. <i>Journal of Molecular Biology</i> , <b>1993</b> , 234, 257-80	6.5	148
53	Cleavage of tRNA precursors by the RNA subunit of E. coli ribonuclease P (M1 RNA) is influenced by 3 Woroximal CCA in the substrates. <i>Cell</i> , <b>1984</b> , 38, 219-24	56.2	98
52	Nucleotides that contribute to the identity of Escherichia coli tRNA(Phe). <i>Journal of Molecular Biology</i> , <b>1988</b> , 202, 697-709	6.5	84
51	A mutant of escherichia coli defective in removing 3Vterminal nucleotides from some transfer RNA precursor molecules. <i>Cell</i> , <b>1975</b> , 5, 389-400	56.2	75
50	Differences between transfer RNA molecules. <i>Journal of Molecular Biology</i> , <b>1987</b> , 194, 635-42	6.5	67
49	Transfer RNA identity. FASEB Journal, 1993, 7, 72-8	0.9	60
48	Nucleotide alterations in the bacteriophage T4 glutamine transfer RNA that affect ochre suppressor activity. <i>Journal of Molecular Biology</i> , <b>1974</b> , 90, 677-89	6.5	56
47	Seven terminal steps in a biosynthetic pathway leading from DNA to transfer RNA. <i>Accounts of Chemical Research</i> , <b>1977</b> , 10, 418-425	24.3	54
46	Five steps in the conversion of a large precursor RNA into bacteriophage proline and serine transfer RNAs. <i>Journal of Molecular Biology</i> , <b>1975</b> , 99, 733-60	6.5	50
45	Rapid site-specific mutagenesis in plasmids. <i>Gene</i> , <b>1987</b> , 59, 285-90	3.8	47
44	Conditionally lethal mutants of bacteriophage T4 defective in production of a transfer RNA. <i>Journal of Molecular Biology</i> , <b>1973</b> , 81, 137-55	6.5	47
43	Transfer Ribonucleic Acid Nucleotidyl-transferase Plays an Essential Role in the Normal Growth of Escherichia coli and in the Biosynthesis of Some Bacteriophage T4 Transfer Ribonucleic Acids. Journal of Biological Chemistry, <b>1974</b> , 249, 6696-6699	5.4	46
42	An ochre suppressor of bacteriophage T4 that is associated with a transfer RNA. <i>Journal of Molecular Biology</i> , <b>1974</b> , 90, 665-76	6.5	42
41	Genetic perturbations that reveal tertiary conformation of tRNA precursor molecules. <i>Nature</i> , <b>1975</b> , 257, 106-10	50.4	41
40	The psu1+ amber suppressor gene of bacteriophage T4: identification of its amino acid and transfer RNA. <i>Journal of Molecular Biology</i> , <b>1973</b> , 81, 157-71	6.5	40
39	Nucleotide alterations in bacteriophage T4 serine transfer RNA that affect the conversion of precursor RNA into transfer RNA. <i>Journal of Molecular Biology</i> , <b>1975</b> , 99, 717-32	6.5	38

38	UAG suppressor coded by bacteriophage T4. FEBS Letters, 1970, 6, 99-101	3.8	35
37	A statistical method for correlating tRNA sequence with amino acid specificity. <i>Nucleic Acids Research</i> , <b>1986</b> , 14, 375-80	20.1	30
36	Variants in clones of gene-machine-synthesized oligodeoxynucleotides. <i>Nucleic Acids Research</i> , <b>1986</b> , 14, 6770	20.1	29
35	A mutation of the wobble nucleotide of a bacteriophage T4 transfer RNA. <i>Journal of Molecular Biology</i> , <b>1975</b> , 99, 283-93	6.5	27
34	Rare transfer ribonucleic acid essential for phage growth. Nucleotide sequence comparison of normal and mutant T4 isoleucine-accepting transfer ribonucleic acid. <i>Biochemistry</i> , <b>1979</b> , 18, 3786-95	3.2	26
33	Distinctive acceptor-end structure and other determinants of Escherichia coli tRNAPro identity. <i>Nucleic Acids Research</i> , <b>1994</b> , 22, 522-9	20.1	24
32	Cysteine transfer RNA of Escherichia coli: nucleotide sequence and unusual metabolic properties of the 3WC-C-A terminus. <i>Journal of Molecular Biology</i> , <b>1977</b> , 117, 1061-79	6.5	24
31	Trials, travails and triumphs: an account of RNA catalysis in RNase P. <i>Journal of Molecular Biology</i> , <b>2010</b> , 397, 627-46	6.5	22
30	The reliability of in vivo structure-function analysis of tRNA aminoacylation. <i>Journal of Molecular Biology</i> , <b>1999</b> , 290, 391-409	6.5	21
29	Nucleotide sequence of a glycine transfer RNA coded by bacteriophage T4. FEBS Letters, 1973, 37, 64-9	3.8	21
28	Evolution of the biosynthesis of 3\text{\text{\text{W}}}\text{erminal C-C-A residues in T-even bacteriophage transfer RNAs.} Journal of Molecular Biology, <b>1978</b> , 119, 519-36	6.5	19
27	Recognition of acceptor-stem structure of tRNA(Asp) by Escherichia coli aspartyl-tRNA synthetase. <i>Rna</i> , <b>2003</b> , 9, 386-93	5.8	18
26	Searching tRNA sequences for relatedness to aminoacyl-tRNA synthetase families. <i>Journal of Molecular Evolution</i> , <b>1995</b> , 40, 482-6	3.1	18
25	An Escherichia coli ribonuclease which removes an extra nucleotide from a biosynthetic intermediate of bacteriophage T4 proline transfer RNA. <i>Nucleic Acids Research</i> , <b>1978</b> , 5, 4129-39	20.1	18
24	A role for ribonuclease III in synthesis of bacteriophage T4 transfer RNAs. <i>Biochemical and Biophysical Research Communications</i> , <b>1979</b> , 86, 718-24	3.4	17
23	The relationship of thermodynamic stability at a $G \times U$ recognition site to tRNA aminoacylation specificity. <i>Rna</i> , <b>1999</b> , 5, 1490-4	5.8	15
22	Surprising contribution to aminoacylation and translation of non-Watson-Crick pairs in tRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4570-5	11.5	13
21	A set of plasmids constitutively producing different RNA levels in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>1999</b> , 290, 385-9	6.5	10

20	Hybrid transfer RNA genes in phage T4. <i>Cell</i> , <b>1984</b> , 38, 225-31	56.2	10
19	Plasmid systems to study RNA function in Escherichia coli. <i>Journal of Molecular Biology</i> , <b>2001</b> , 310, 543-	86.5	9
18	Functional compensation by particular nucleotide substitutions of a critical G*U wobble base-pair during aminoacylation of transfer RNA. <i>Journal of Molecular Biology</i> , <b>1999</b> , 286, 1025-32	6.5	9
17	An algorithm for discriminating sequences and its application to yeast transfer RNA. <i>Bioinformatics</i> , <b>1987</b> , 3, 177-81	7.2	8
16	Genetic analysis of structure and function in phage T4 tRNASer. <i>Journal of Molecular Biology</i> , <b>1988</b> , 203, 549-53	6.5	8
15	Three suppressor forms of bacteriophage T4 leucine transfer RNA. <i>Journal of Molecular Biology</i> , <b>1979</b> , 135, 1013-21	6.5	8
14	The tRNA Identity Problem: Past, Present, and Future335-347		8
13	Construction of an Escherichia coli knockout strain for functional analysis of tRNA(Asp). <i>Journal of Molecular Biology</i> , <b>2001</b> , 310, 537-42	6.5	6
12	Suppressor and novel mutants of bacteriophage T4 tRNA(Gly). <i>Journal of Molecular Biology</i> , <b>1987</b> , 193, 223-6	6.5	5
11	Genetic perturbations of RNA reveal structure-based recognition in protein-RNA interaction. <i>Journal of Molecular Biology</i> , <b>2002</b> , 324, 573-6	6.5	4
10	Specific duplications fostered by a DNA structure containing adjacent inverted repeat sequences. Journal of Molecular Biology, 1988, 204, 27-40	6.5	4
9	Maturation Events Leading to Transfer RNA and Ribosomal RNA <b>1980</b> , 439-545		4
8	Aptamer redesigned tRNA is nonfunctional and degraded in cells. <i>Rna</i> , <b>2004</b> , 10, 7-11	5.8	2
7	Genetic conversion of G.C base-pairs to A.U base-pairs in a transfer RNA. <i>Journal of Molecular Biology</i> , <b>1987</b> , 197, 605-8	6.5	2
6	Characterization of bacteriophage T4 and D RNA, a low-molecular-weight RNA of unknown function. <i>Archives of Biochemistry and Biophysics</i> , <b>1981</b> , 210, 298-306	4.1	2
5	Phage-Induced Conversion of Host Valy-tRNA Synthetase. <i>Novartis Foundation Symposium</i> ,191-205		2
4	Discovery of a mini-RNase P in archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 22371-2	11.5	1
3	Structure-function analysis of tRNA(Gln) in an Escherichia coli knockout strain. <i>Rna</i> , <b>2004</b> , 10, 795-804	5.8	1

tRNA nucleotide 47: an evolutionary enigma. *Rna*, **1998**, 4, 928-36

5.8 1

RNA: yesterday, today and tomorrow. Rna, 2015, 21, 541-3

5.8