

# Paul F Agris

## List of Publications by Year in descending order

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46  
papers

3,990  
citations

218677

26  
h-index

233421

45  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3530  
citing authors

#	ARTICLE	IF	CITATIONS
1	The RNA modification database, RNAMDB: 2011 update. <i>Nucleic Acids Research</i> , 2011, 39, D195-D201.	14.5	701
2	tRNA's Wobble Decoding of the Genome: 40 Years of Modification. <i>Journal of Molecular Biology</i> , 2007, 366, 1-13.	4.2	458
3	The role of modifications in codon discrimination by tRNA <sup>Lys</sup> UUU. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 1186-1191.	8.2	304
4	Decoding the genome: a modified view. <i>Nucleic Acids Research</i> , 2004, 32, 223-238.	14.5	302
5	Accurate Translation of the Genetic Code Depends on tRNA Modified Nucleosides. <i>Journal of Biological Chemistry</i> , 2002, 277, 16391-16395.	3.4	216
6	tRNA's modifications bring order to gene expression. <i>Current Opinion in Microbiology</i> , 2008, 11, 134-140.	5.1	213
7	Bringing order to translation: the contributions of transfer RNA anticodon domain modifications. <i>EMBO Reports</i> , 2008, 9, 629-635.	4.5	194
8	Mechanism for expanding the decoding capacity of transfer RNAs by modification of uridines. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 498-502.	8.2	168
9	Single atom modification (O <sup>4</sup> S) of tRNA confers ribosome binding. <i>Rna</i> , 1999, 5, 188-194.	3.5	119
10	Chemistry and structure of modified uridines in the anticodon, wobble position of transfer RNA are determined by thiolation. <i>Journal of the American Chemical Society</i> , 1987, 109, 7171-7177.	13.7	116
11	Functional Anticodon Architecture of Human tRNA <sup>Lys</sup> 3 Includes Disruption of Intraloop Hydrogen Bonding by the Naturally Occurring Amino Acid Modification, t <sub>6</sub> A. <i>Biochemistry</i> , 2000, 39, 13396-13404.	2.5	109
12	Biological function of 2-thiouridine in Escherichia coli glutamic acid transfer ribonucleic acid. <i>Biochemistry</i> , 1973, 12, 4331-4337.	2.5	107
13	Chemical and Conformational Diversity of Modified Nucleosides Affects tRNA Structure and Function. <i>Biomolecules</i> , 2017, 7, 29.	4.0	104
14	Human tRNA <sup>Lys</sup> 3UUU Is Pre-Structured by Natural Modifications for Cognate and Wobble Codon Binding through Keto-Enol Tautomerism. <i>Journal of Molecular Biology</i> , 2012, 416, 467-485.	4.2	103
15	Modified Nucleoside Dependent Watson-Crick and Wobble Codon Binding by tRNA <sup>Lys</sup> UUU Species. <i>Biochemistry</i> , 2000, 39, 13390-13395.	2.5	98
16	Naturally-occurring Modification Restricts the Anticodon Domain Conformational Space of tRNA <sup>Phe</sup> . <i>Journal of Molecular Biology</i> , 2003, 334, 901-918.	4.2	69
17	Modified Nucleotides in tRNA <sup>Lys</sup> and tRNA <sup>Val</sup> are Important for Translocation. <i>Journal of Molecular Biology</i> , 2004, 338, 439-444.	4.2	57
18	Synthesis and investigation of the 5-formylcytidine modified, anticodon stem and loop of the human mitochondrial tRNA <sup>Met</sup> . <i>Nucleic Acids Research</i> , 2008, 36, 6548-6557.	14.5	50

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19	The structure of the human tRNA <sup>Lys3</sup> anticodon bound to the HIV genome is stabilized by modified nucleosides and adjacent mismatch base pairs. <i>Nucleic Acids Research</i> , 2009, 37, 3342-3353.	14.5	49
20	The uridine in $\alpha$ -U-turn: Contributions to tRNA-ribosomal binding. <i>Rna</i> , 1999, 5, 503-511.	3.5	47
21	Anticodon Domain Modifications Contribute Order to tRNA for Ribosome-Mediated Codon Binding. <i>Biochemistry</i> , 2008, 47, 6117-6129.	2.5	42
22	TET1-Mediated Oxidation of 5-Formylcytosine (5fC) to 5-Carboxycytosine (5caC) in RNA. <i>ChemBioChem</i> , 2017, 18, 72-76.	2.6	36
23	The importance of being modified: an unrealized code to RNA structure and function. <i>Rna</i> , 2015, 21, 552-554.	3.5	33
24	Role of Modified Nucleosides of Yeast tRNA <sup>Phe</sup> in Ribosomal Binding. <i>Cell Biochemistry and Biophysics</i> , 2000, 33, 241-252.	1.8	32
25	tRNA regulation of gene expression: Interactions of an mRNA 5'-UTR with a regulatory tRNA. <i>Rna</i> , 2006, 12, 1254-1261.	3.5	29
26	Modifications Modulate Anticodon Loop Dynamics and Codon Recognition of E. coli tRNA <sup>Arg1,2</sup> . <i>Journal of Molecular Biology</i> , 2012, 416, 579-597.	4.2	29
27	Amino Acid Signature Enables Proteins to Recognize Modified tRNA. <i>Biochemistry</i> , 2014, 53, 1125-1133.	2.5	28
28	Experimental models of protein-RNA interaction: isolation and analyses of tRNA(Phe) and U1 snRNA-binding peptides from bacteriophage display libraries. <i>The Protein Journal</i> , 1999, 18, 425-435.	1.1	24
29	Solution structure of a synthetic peptide corresponding to a receptor binding region of FSH (hFSH- $\hat{I}^2$ ) Tj ETQq1 1 0,784314 rgBT /Over	1.1	20
30	Discovery of Small-Molecule Antibiotics against a Unique tRNA-Mediated Regulation of Transcription in Gram-Positive Bacteria. <i>ChemMedChem</i> , 2019, 14, 758-769.	3.2	19
31	Structure of the Trinucleotide D- <sup>3</sup> U-A with Coordinated Mg <sup>2+</sup> Demonstrates that Modified Nucleosides Contribute to Regional Conformations of RNA. <i>Nucleosides &amp; Nucleotides</i> , 1996, 15, 1009-1028.	0.5	18
32	NMR-based Structural Analysis of Threonylcarbamoyl-AMP Synthase and Its Substrate Interactions. <i>Journal of Biological Chemistry</i> , 2015, 290, 20032-20043.	3.4	13
33	A Structural Basis for Restricted Codon Recognition Mediated by 2-thiocytidine in tRNA Containing a Wobble Position Inosine. <i>Journal of Molecular Biology</i> , 2020, 432, 913-929.	4.2	12
34	Immunochemical Analysis of an Arginine-Rich Systemic Lupus Erythematosus Autoepitope. <i>Autoimmunity</i> , 1993, 15, 231-236.	2.6	10
35	Orientation of the tRNA anticodon in the ribosomal P-site: Quantitative footprinting with U33-modified, anticodon stem and loop domains. <i>Rna</i> , 1999, 5, 1191-1199.	3.5	9
36	RNA Modified Uridines VI: Conformations of 3-[3-(S)-Amino-3-Carboxypropyl]Uridine (acp3U) from tRNA and 1-Methyl-3-[3-(S)-Amino-3-Carboxypropyl]Pseudouridine (m1acp3U) from rRNA. <i>Nucleosides &amp; Nucleotides</i> , 1992, 11, 1683-1694.	0.5	8

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37	RNA Modified Uridines VII: Chemical Synthesis and Initial Analysis of tRNA D-Loop Oligomers with Tandem Modified Uridines. <i>Nucleosides &amp; Nucleotides</i> , 1995, 14, 143-165.	0.5	7
38	Synthesis and Properties of Uniquely Modified Oligoribonucleotides: Yeast Trna <sup>Phe</sup> Fragments with 6-Methyluridine and 5,6-Dimethyluridine at Site-Specific Positions. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 515-531.	1.1	6
39	A New Promising Anti-Infective Agent Inhibits Biofilm Growth by Targeting Simultaneously a Conserved RNA Function That Controls Multiple Genes. <i>Antibiotics</i> , 2021, 10, 41.	3.7	6
40	Physical Chemistry of a Single tRNA-Modified Nucleoside Regulates Decoding of the Synonymous Lysine Wobble Codon and Affects Type 2 Diabetes. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1168-1177.	2.6	6
41	Anti-Sm Autoantibodies of Systemic Lupus Erythematosus Cross React with Dietary Plant Proteins. <i>Immunological Investigations</i> , 1992, 21, 193-202.	2.0	5
42	Post-Transcriptional Modifications of RNA: Impact on RNA Function and Human Health. <i>RNA Technologies</i> , 2016, , 91-130.	0.3	4
43	Small-Molecule Antibiotics Inhibiting tRNA-Regulated Gene Expression Is a Viable Strategy for Targeting Gram-Positive Bacteria. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	3.2	4
44	Modified nucleoside-dependent transition metal binding to DNA analogs of the tRNA anticodon stem/loop domain. <i>BioMetals</i> , 1995, 8, 290-6.	4.1	3
45	Ribosome-independent anticodon to codon binding assessed by circular dichroism: Roles of base modifications, Mg <sup>2+</sup> and 2â€²OH. <i>Biospectroscopy</i> , 1996, 2, 205-217.	0.6	3
46	NMR and Paramagnetic Ion Substitution Locates a Modified-Nucleoside Dependent Metal Binding Site in DNA: Molecular Dynamics, Surface Charge and H <sub>2</sub> O Ordering. <i>Magnetic Resonance in Chemistry</i> , 1996, 34, S87-S96.	1.9	0