

Patrick O Donoghue

List of Publications by Year in Descending Order

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

52
papers

3,251
citations

27
h-index

57
g-index

59
ext. papers

3,796
ext. citations

9.3
avg, IF

5.22
L-index

#	Paper	IF	Citations
52	A novel fluorescent reporter sensitive to serine mis-incorporation.. <i>RNA Biology</i> , 2022 , 19, 221-233	4.8	2
51	Formation and persistence of polyglutamine aggregates in mistranslating cells. <i>Nucleic Acids Research</i> , 2021 , 49, 11883-11899	20.1	4
50	Acetylated Thioredoxin Reductase 1 Resists Oxidative Inactivation. <i>Frontiers in Chemistry</i> , 2021 , 9, 747236	3.5	0
49	Phosphorylation-dependent substrate selectivity of protein kinase B (AKT1). <i>Journal of Biological Chemistry</i> , 2020 , 295, 8120-8134	5.4	16
48	Programmed ubiquitin acetylation using genetic code expansion reveals altered ubiquitination patterns. <i>FEBS Letters</i> , 2020 , 594, 1226-1234	3.8	5
47	Phospho-Form Specific Substrates of Protein Kinase B (AKT1). <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 619252	5.8	4
46	Gld2 activity is regulated by phosphorylation in the N-terminal domain. <i>RNA Biology</i> , 2019 , 16, 1022-1033	4.8	5
45	The Molecular Architecture of Unnatural Amino Acid Translation Systems. <i>Structure</i> , 2019 , 27, 1192-1194	5.2	
44	Targeted sequencing reveals expanded genetic diversity of human transfer RNAs. <i>RNA Biology</i> , 2019 , 16, 1574-1585	4.8	9
43	Pathways to disease from natural variations in human cytoplasmic tRNAs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 5294-5308	5.4	31
42	Visualizing tRNA-dependent mistranslation in human cells. <i>RNA Biology</i> , 2018 , 15, 567-575	4.8	20
41	Transfer RNA function and evolution. <i>RNA Biology</i> , 2018 , 15, 423-426	4.8	10
40	Acetylation Regulates Thioredoxin Reductase Oligomerization and Activity. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 377-388	8.4	9
39	Phosphorylation-Dependent Inhibition of Akt1. <i>Genes</i> , 2018 , 9,	4.2	19
38	Genetic code expansion and live cell imaging reveal that Thr-308 phosphorylation is irreplaceable and sufficient for Akt1 activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10744-10756	5.4	17
37	Mistranslation: from adaptations to applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3070-3080	4	5
36	Genetic selection for mistranslation rescues a defective co-chaperone in yeast. <i>Nucleic Acids Research</i> , 2017 , 45, 3407-3421	20.1	26

35	Ubiquitin phosphorylated at Ser57 hyper-activates parkin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3038-3046	4	9
34	Evolving Mistranslating tRNAs Through a Phenotypically Ambivalent Intermediate in. <i>Genetics</i> , 2017 , 206, 1865-1879	4	14
33	Generation of phospho-ubiquitin variants by orthogonal translation reveals codon skipping. <i>FEBS Letters</i> , 2016 , 590, 1530-42	3.8	23
32	Genetic code flexibility in microorganisms: novel mechanisms and impact on physiology. <i>Nature Reviews Microbiology</i> , 2015 , 13, 707-721	22.2	77
31	Revealing the amino acid composition of proteins within an expanded genetic code. <i>Nucleic Acids Research</i> , 2015 , 43, e8	20.1	52
30	Reducing the genetic code induces massive rearrangement of the proteome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17206-11	11.5	9
29	Polyspecific pyrrolysyl-tRNA synthetases from directed evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16724-9	11.5	75
28	Recoding the genetic code with selenocysteine. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 319-23	16.4	60
27	Umkodierung des genetischen Codes mit Selenocystein. <i>Angewandte Chemie</i> , 2014 , 126, 325-330	3.6	8
26	Titelbild: Umkodierung des genetischen Codes mit Selenocystein (Angew. Chem. 1/2014). <i>Angewandte Chemie</i> , 2014 , 126, 1-1	3.6	124
25	Upgrading protein synthesis for synthetic biology. <i>Nature Chemical Biology</i> , 2013 , 9, 594-8	11.7	114
24	Aminoacylation of tRNA 2U or 3Uhydroxyl by phosphoseryl- and pyrrolysyl-tRNA synthetases. <i>FEBS Letters</i> , 2013 , 587, 3360-4	3.8	11
23	UGA is an additional glycine codon in uncultured SR1 bacteria from the human microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5540-5	11.5	199
22	Carbon source-dependent expansion of the genetic code in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21070-5	11.5	40
21	Near-cognate suppression of amber, opal and quadruplet codons competes with aminoacyl-tRNAPyl for genetic code expansion. <i>FEBS Letters</i> , 2012 , 586, 3931-7	3.8	58
20	tRNA ^{His} -guanylyltransferase establishes tRNA ^{His} identity. <i>Nucleic Acids Research</i> , 2012 , 40, 333-44	20.1	29
19	Rational design of an evolutionary precursor of glutamyl-tRNA synthetase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20485-90	11.5	17
18	Structure of an archaeal non-discriminating glutamyl-tRNA synthetase: a missing link in the evolution of Gln-tRNA ^{Gln} formation. <i>Nucleic Acids Research</i> , 2010 , 38, 7286-97	20.1	29

17	Distinct genetic code expansion strategies for selenocysteine and pyrrolysine are reflected in different aminoacyl-tRNA formation systems. <i>FEBS Letters</i> , 2010 , 584, 342-9	3.8	59
16	A bacterial ortholog of class II lysyl-tRNA synthetase activates lysine. <i>FEBS Letters</i> , 2010 , 584, 3055-60	3.8	15
15	The appearance of pyrrolysine in tRNA ^{His} guanylyltransferase by neutral evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21103-8	11.5	43
14	Dual targeting of a tRNA ^{Asp} requires two different aspartyl-tRNA synthetases in <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 16210-16217	5.4	28
13	How an obscure archaeal gene inspired the discovery of selenocysteine biosynthesis in humans. <i>IUBMB Life</i> , 2009 , 61, 35-9	4.7	19
12	Pyrrolysyl-tRNA synthetase-tRNA(Pyl) structure reveals the molecular basis of orthogonality. <i>Nature</i> , 2009 , 457, 1163-7	50.4	133
11	Characterization and evolutionary history of an archaeal kinase involved in selenocysteiny-tRNA formation. <i>Nucleic Acids Research</i> , 2008 , 36, 1247-59	20.1	28
10	1P-036 X-ray crystallographic analysis of pyrrolysyl-tRNA synthetase from the eubacteria(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S26	0	
9	Structural insights into RNA-dependent eukaryal and archaeal selenocysteine formation. <i>Nucleic Acids Research</i> , 2008 , 36, 1187-99	20.1	43
8	Structure of pyrrolysyl-tRNA synthetase, an archaeal enzyme for genetic code innovation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 11268-73	11.5	156
7	The amino-terminal domain of pyrrolysyl-tRNA synthetase is dispensable in vitro but required for in vivo activity. <i>FEBS Letters</i> , 2007 , 581, 3197-203	3.8	39
6	Emergence of the universal genetic code imprinted in an RNA record. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18095-100	11.5	50
5	RNA-dependent conversion of phosphoserine forms selenocysteine in eukaryotes and archaea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18923-7	11.5	359
4	Evolutionary profiles derived from the QR factorization of multiple structural alignments gives an economy of information. <i>Journal of Molecular Biology</i> , 2005 , 346, 875-94	6.5	246
3	The evolutionary history of Cys-tRNA ^{Cys} formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 19003-8	11.5	70
2	Evolutionary profiles from the QR factorization of multiple sequence alignments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4045-50	11.5	34
1	On the evolution of structure in aminoacyl-tRNA synthetases. <i>Microbiology and Molecular Biology Reviews</i> , 2003 , 67, 550-73	13.2	193