

Paul R Copeland

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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.

54
papers

2,301
citations

25
h-index

47
g-index

59
ext. papers

2,552
ext. citations

7.2
avg, IF

4.96
L-index

#	Paper	IF	Citations
54	A novel RNA binding protein, SBP2, is required for the translation of mammalian selenoprotein mRNAs. <i>EMBO Journal</i> , 2000 , 19, 306-14	13	311
53	Mechanism and regulation of selenoprotein synthesis. <i>Annual Review of Nutrition</i> , 2003 , 23, 17-40	9.9	307
52	Decoding apparatus for eukaryotic selenocysteine insertion. <i>EMBO Reports</i> , 2000 , 1, 158-63	6.5	249
51	Selenoprotein Gene Nomenclature. <i>Journal of Biological Chemistry</i> , 2016 , 291, 24036-24040	5.4	147
50	Purification, redox sensitivity, and RNA binding properties of SECIS-binding protein 2, a protein involved in selenoprotein biosynthesis. <i>Journal of Biological Chemistry</i> , 1999 , 274, 25447-54	5.4	118
49	Insight into mammalian selenocysteine insertion: domain structure and ribosome binding properties of Sec insertion sequence binding protein 2. <i>Molecular and Cellular Biology</i> , 2001 , 21, 1491-8	4.8	96
48	The mechanism and regulation of deadenylation: identification and characterization of Xenopus PARN. <i>Rna</i> , 2001 , 7, 875-86	5.8	86
47	Efficiency of mammalian selenocysteine incorporation. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37852-94	5.4	76
46	Threading the needle: getting selenocysteine into proteins. <i>Antioxidants and Redox Signaling</i> , 2010 , 12, 881-92	8.4	64
45	Regulation of gene expression by stop codon recoding: selenocysteine. <i>Gene</i> , 2003 , 312, 17-25	3.8	60
44	Selenocysteine incorporation directed from the 3'UTR: characterization of eukaryotic EFsec and mechanistic implications. <i>BioFactors</i> , 2001 , 14, 17-24	6.1	53
43	A novel protein domain induces high affinity selenocysteine insertion sequence binding and elongation factor recruitment. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35129-39	5.4	49
42	The L7Ae RNA binding motif is a multifunctional domain required for the ribosome-dependent Sec incorporation activity of Sec insertion sequence binding protein 2. <i>Molecular and Cellular Biology</i> , 2007 , 27, 6350-60	4.8	46
41	The molecular biology of selenocysteine. <i>Biomolecular Concepts</i> , 2013 , 4, 349-65	3.7	40
40	Characterization of the SECIS binding protein 2 complex required for the co-translational insertion of selenocysteine in mammals. <i>Nucleic Acids Research</i> , 2005 , 33, 5172-80	20.1	40
39	Regulation of selenocysteine incorporation into the selenium transport protein, selenoprotein P. <i>Journal of Biological Chemistry</i> , 2014 , 289, 25317-26	5.4	39
38	Making sense of nonsense: the evolution of selenocysteine usage in proteins. <i>Genome Biology</i> , 2005 , 6, 221	18.3	36

37	Selenoprotein expression is regulated at multiple levels in prostate cells. <i>Cell Research</i> , 2006 , 16, 940-8	24.7	36
36	Polysome distribution of phospholipid hydroperoxide glutathione peroxidase mRNA: evidence for a block in elongation at the UGA/selenocysteine codon. <i>Rna</i> , 2000 , 6, 1573-84	5.8	35
35	Eukaryotic polyribosome profile analysis. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	31
34	Evolutionary history of selenocysteine incorporation from the perspective of SECIS binding proteins. <i>BMC Evolutionary Biology</i> , 2009 , 9, 229	3	29
33	The efficiency of selenocysteine incorporation is regulated by translation initiation factors. <i>Journal of Molecular Biology</i> , 2010 , 400, 659-64	6.5	28
32	Reconstitution of selenocysteine incorporation reveals intrinsic regulation by SECIS elements. <i>Journal of Molecular Biology</i> , 2013 , 425, 2415-22	6.5	26
31	Selenocysteine incorporation: A trump card in the game of mRNA decay. <i>Biochimie</i> , 2015 , 114, 97-101	4.6	25
30	The selenocysteine-specific elongation factor contains a novel and multi-functional domain. <i>Journal of Biological Chemistry</i> , 2012 , 287, 38936-45	5.4	25
29	Functional analysis of the interplay between translation termination, selenocysteine codon context, and selenocysteine insertion sequence-binding protein 2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36797-807	5.4	24
28	Analysis of <i>Saccharomyces cerevisiae</i> null allele strains identifies a larger role for DNA damage versus oxidative stress pathways in growth inhibition by selenium. <i>Molecular Nutrition and Food Research</i> , 2008 , 52, 1305-15	5.9	23
27	Selenocysteine insertion sequence (SECIS)-binding protein 2 alters conformational dynamics of residues involved in tRNA accommodation in 80 S ribosomes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10664-10673	5.4	21
26	Selenocysteine insertion sequence binding protein 2L is implicated as a novel post-transcriptional regulator of selenoprotein expression. <i>PLoS ONE</i> , 2012 , 7, e35581	3.7	20
25	New Directions for Understanding the Codon Redefinition Required for Selenocysteine Incorporation. <i>Biological Trace Element Research</i> , 2019 , 192, 18-25	4.5	18
24	Genome-wide screen of <i>Saccharomyces cerevisiae</i> null allele strains identifies genes involved in selenomethionine resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17682-7	11.5	17
23	RNA binding proteins and selenocysteine. <i>BioFactors</i> , 2001 , 14, 11-6	6.1	17
22	Crystal structures of the human elongation factor eEFSec suggest a non-canonical mechanism for selenocysteine incorporation. <i>Nature Communications</i> , 2016 , 7, 12941	17.4	15
21	Multiple RNA structures affect translation initiation and UGA redefinition efficiency during synthesis of selenoprotein P. <i>Nucleic Acids Research</i> , 2017 , 45, 13004-13015	20.1	14
20	Processive Recoding and Metazoan Evolution of Selenoprotein P: Up to 132 UGAs in Molluscs. <i>Journal of Molecular Biology</i> , 2019 , 431, 4381-4407	6.5	12

19	Uptake and Utilization of Selenium from Selenoprotein P. <i>Biological Trace Element Research</i> , 2018 , 181, 54-61	4.5	10
18	Structural asymmetry of the terminal catalytic complex in selenocysteine synthesis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 28783-94	5.4	10
17	Molecular mechanism of selenoprotein P synthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 2506-2510	4	7
16	Purification and analysis of selenocysteine insertion sequence-binding protein 2. <i>Methods in Enzymology</i> , 2002 , 347, 40-9	1.7	7
15	Processive incorporation of multiple selenocysteine residues is driven by a novel feature of the selenocysteine insertion sequence. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19377-19386	5.4	7
14	The Selenocysteine-Specific Elongation Factor Contains Unique Sequences That Are Required for Both Nuclear Export and Selenocysteine Incorporation. <i>PLoS ONE</i> , 2016 , 11, e0165642	3.7	6
13	The Selenium Transport Protein, Selenoprotein P, Requires Coding Sequence Determinants to Promote Efficient Selenocysteine Incorporation. <i>Journal of Molecular Biology</i> , 2018 , 430, 5217-5232	6.5	5
12	Identification of the Selenoprotein S Positive UGA Recoding (SPUR) element and its position-dependent activity. <i>RNA Biology</i> , 2019 , 16, 1682-1696	4.8	4
11	The utilization of selenocysteine-tRNA isoforms is regulated in part at the level of translation. <i>Translation</i> , 2017 , 5, e1314240		3
10	In Vitro Translation Assays for Selenocysteine Insertion. <i>Methods in Molecular Biology</i> , 2018 , 1661, 93-101.4		2
9	SECIS binding proteins 2001 , 55-67		2
8	Eukaryotic Mechanisms of Selenocysteine Incorporation and Its Reconstitution In Vitro 2016 , 13-24		2
7	A birth-to-death view of mRNA from the RNA recognition motif perspective. <i>Biochemistry and Molecular Biology Education</i> , 2008 , 36, 1-8	1.3	1
6	Ribosome Fate during Decoding of UGA-Sec Codons.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
5	Gained in translation: The power of digging deep into disease models. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14201-14202	5.4	
4	Molecular Mechanism of Eukaryotic Selenocysteine Incorporation 2011 , 33-46		
3	A Ribosomal Perspective on the Mechanism of Selenocysteine Incorporation 2011 , 61-72		
2	SECIS binding proteins and eukaryotic selenoprotein synthesis 2006 , 63-72		

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