

Sidney R Kushner

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.

124
papers

9,381
citations

50
h-index

96
g-index

129
ext. papers

9,868
ext. citations

7.5
avg, IF

5.97
L-index

#	Paper	IF	Citations
124	Inactivation of RNase P in Escherichia coli significantly changes post-transcriptional RNA metabolism. <i>Molecular Microbiology</i> , 2021 ,	4.1	2
123	Regulation of mRNA decay in. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2021 , 1-25	8.7	1
122	Generation of pre-tRNAs from polycistronic operons is the essential function of RNase P in Escherichia coli. <i>Nucleic Acids Research</i> , 2020 , 48, 2564-2578	20.1	8
121	New Insights into the Relationship between tRNA Processing and Polyadenylation in Escherichia coli. <i>Trends in Genetics</i> , 2019 , 35, 434-445	8.5	6
120	Analysis of post-transcriptional RNA metabolism in prokaryotes. <i>Methods</i> , 2019 , 155, 124-130	4.6	3
119	Enzymes Involved in Posttranscriptional RNA Metabolism in Gram-Negative Bacteria. <i>Microbiology Spectrum</i> , 2018 , 6,	8.9	28
118	Enzymes Involved in Posttranscriptional RNA Metabolism in Gram-Negative Bacteria 2018 , 19-35		2
117	The -Encoded Truncated RNase PH Protein Inhibits RNase P Maturation of Pre-tRNAs with Short Leader Sequences in the Absence of RppH. <i>Journal of Bacteriology</i> , 2017 , 199,	3.5	6
116	Endonucleolytic cleavages by RNase E generate the mature 3Stermini of the three proline tRNAs in Escherichia coli. <i>Nucleic Acids Research</i> , 2016 , 44, 6350-62	20.1	16
115	Regulation of mRNA Decay in Bacteria. <i>Annual Review of Microbiology</i> , 2016 , 70, 25-44	17.5	76
114	RNase E-based degradosome modulates polyadenylation of mRNAs after Rho-independent transcription terminators in Escherichia coli. <i>Molecular Microbiology</i> , 2016 , 101, 645-55	4.1	13
113	Polyadenylation in E. coli: a 20 year odyssey. <i>Rna</i> , 2015 , 21, 673-4	5.8	6
112	Processing of the seven valine tRNAs in Escherichia coli involves novel features of RNase P. <i>Nucleic Acids Research</i> , 2014 , 42, 11166-79	20.1	15
111	In vivo analysis of polyadenylation in prokaryotes. <i>Methods in Molecular Biology</i> , 2014 , 1125, 229-49	1.4	6
110	Deregulation of poly(A) polymerase I in Escherichia coli inhibits protein synthesis and leads to cell death. <i>Nucleic Acids Research</i> , 2013 , 41, 1757-66	20.1	27
109	RNASnap is a rapid, quantitative and inexpensive, method for isolating total RNA from bacteria. <i>Nucleic Acids Research</i> , 2012 , 40, e156	20.1	94
108	Polyadenylation helps regulate functional tRNA levels in Escherichia coli. <i>Nucleic Acids Research</i> , 2012 , 40, 4589-603	20.1	45

107	Bacterial/archaeal/organelle polyadenylation. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011 , 2, 256-76	9.3	65
106	Analysis of Escherichia coli RNase E and RNase III activity in vivo using tiling microarrays. <i>Nucleic Acids Research</i> , 2011 , 39, 3188-203	20.1	99
105	Processing of the Escherichia coli leuX tRNA transcript, encoding tRNA(Leu5), requires either the 3S->5Sexoribonuclease polynucleotide phosphorylase or RNase P to remove the Rho-independent transcription terminator. <i>Nucleic Acids Research</i> , 2010 , 38, 597-607	20.1	35
104	Single amino acid changes in the predicted RNase H domain of Escherichia coli RNase G lead to complementation of RNase E deletion mutants. <i>Rna</i> , 2010 , 16, 1371-85	5.8	30
103	De novo computational prediction of non-coding RNA genes in prokaryotic genomes. <i>Bioinformatics</i> , 2009 , 25, 2897-905	7.2	36
102	The response regulator SprE (RssB) modulates polyadenylation and mRNA stability in Escherichia coli. <i>Journal of Bacteriology</i> , 2009 , 191, 6812-21	3.5	15
101	Analysis of RNA decay, processing, and polyadenylation in Escherichia coli and other prokaryotes. <i>Methods in Enzymology</i> , 2008 , 447, 3-29	1.7	21
100	Intragenic suppressors of temperature-sensitive rne mutations lead to the dissociation of RNase E activity on mRNA and tRNA substrates in Escherichia coli. <i>Nucleic Acids Research</i> , 2008 , 36, 5306-18	20.1	19
99	Rho-independent transcription terminators inhibit RNase P processing of the secG leuU and metT tRNA polycistronic transcripts in Escherichia coli. <i>Nucleic Acids Research</i> , 2008 , 36, 364-75	20.1	37
98	Ribonuclease P processes polycistronic tRNA transcripts in Escherichia coli independent of ribonuclease E. <i>Nucleic Acids Research</i> , 2007 , 35, 7614-25	20.1	40
97	Messenger RNA Decay. <i>EcoSal Plus</i> , 2007 , 2,	7.7	1
96	The majority of Escherichia coli mRNAs undergo post-transcriptional modification in exponentially growing cells. <i>Nucleic Acids Research</i> , 2006 , 34, 5695-704	20.1	87
95	Identification of a novel regulatory protein (CsrD) that targets the global regulatory RNAs CsrB and CsrC for degradation by RNase E. <i>Genes and Development</i> , 2006 , 20, 2605-17	12.6	218
94	RNase Z in Escherichia coli plays a significant role in mRNA decay. <i>Molecular Microbiology</i> , 2006 , 60, 723-37	3.1	69
93	Reliability Of Unsupported Upper Limb Exercise Test Performance For Patients With Multiple Sclerosis. <i>Medicine and Science in Sports and Exercise</i> , 2005 , 37, S225-S226	1.2	
92	The Sm-like protein Hfq regulates polyadenylation dependent mRNA decay in Escherichia coli. <i>Molecular Microbiology</i> , 2004 , 54, 905-20	4.1	175
91	mRNA decay in prokaryotes and eukaryotes: different approaches to a similar problem. <i>IUBMB Life</i> , 2004 , 56, 585-94	4.7	85
90	Pre-tRNA and Pre-rRNA Processing in Bacteria 2004 , 420-424		1

89	RNase G of Escherichia coli exhibits only limited functional overlap with its essential homologue, RNase E. <i>Molecular Microbiology</i> , 2003 , 49, 607-22	4.1	55
88	Genomic analysis in Escherichia coli demonstrates differential roles for polynucleotide phosphorylase and RNase II in mRNA abundance and decay. <i>Molecular Microbiology</i> , 2003 , 50, 645-58	4.1	96
87	RNase E levels in Escherichia coli are controlled by a complex regulatory system that involves transcription of the rne gene from three promoters. <i>Molecular Microbiology</i> , 2002 , 43, 159-71	4.1	35
86	Polyadenylation of Escherichia coli transcripts plays an integral role in regulating intracellular levels of polynucleotide phosphorylase and RNase E. <i>Molecular Microbiology</i> , 2002 , 45, 1315-24	4.1	36
85	Initiation of tRNA maturation by RNase E is essential for cell viability in E. coli. <i>Genes and Development</i> , 2002 , 16, 1102-15	12.6	163
84	mRNA decay in Escherichia coli comes of age. <i>Journal of Bacteriology</i> , 2002 , 184, 4658-65; discussion 4657	3.5	198
83	Polynucleotide phosphorylase, RNase II and RNase E play different roles in the in vivo modulation of polyadenylation in Escherichia coli. <i>Molecular Microbiology</i> , 2000 , 36, 982-94	4.1	79
82	Analysis of mRNA decay and rRNA processing in Escherichia coli in the absence of RNase E-based degradosome assembly. <i>Molecular Microbiology</i> , 2000 , 38, 854-66	4.1	118
81	Polynucleotide phosphorylase functions both as a 3Sright-arrow 5Sexonuclease and a poly(A) polymerase in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11966-71	11.5	226
80	RNA methylation under heat shock control. <i>Molecular Cell</i> , 2000 , 6, 349-60	17.6	211
79	Analysis of the function of Escherichia coli poly(A) polymerase I in RNA metabolism. <i>Molecular Microbiology</i> , 1999 , 34, 1094-108	4.1	119
78	Residual polyadenylation in poly(A) polymerase I (pcnB) mutants of Escherichia coli does not result from the activity encoded by the f310 gene. <i>Molecular Microbiology</i> , 1999 , 34, 1109-19	4.1	31
77	Identification and characterization of Escherichia coli DNA helicase II mutants that exhibit increased unwinding efficiency. <i>Journal of Bacteriology</i> , 1998 , 180, 377-87	3.5	19
76	The Escherichia coli mrsC gene is required for cell growth and mRNA decay. <i>Journal of Bacteriology</i> , 1998 , 180, 1920-8	3.5	27
75	Escherichia coli mrsC is an allele of hflB, encoding a membrane-associated ATPase and protease that is required for mRNA decay. <i>Journal of Bacteriology</i> , 1998 , 180, 1929-38	3.5	24
74	Analysis of the in vivo decay of the Escherichia coli dicistronic pyrF-orfF transcript: evidence for multiple degradation pathways. <i>Journal of Molecular Biology</i> , 1997 , 268, 261-72	6.5	17
73	Development of an in vitro mRNA decay system for Escherichia coli: poly(A) polymerase I is necessary to trigger degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 12926-31	11.5	53
72	The umpA gene of Escherichia coli encodes phosphatidylglycerol:prolipoprotein diacylglycerol transferase (lgt) and regulates thymidylate synthase levels through translational coupling. <i>Journal of Bacteriology</i> , 1995 , 177, 1879-82	3.5	29

71	Polyadenylation helps regulate mRNA decay in Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 1807-11	11.5	224
70	Escherichia coli peptide methionine sulfoxide reductase gene: regulation of expression and role in protecting against oxidative damage. <i>Journal of Bacteriology</i> , 1995 , 177, 502-7	3.5	254
69	Identification of a second poly(A) polymerase in Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1994 , 198, 459-65	3.4	35
68	Characterization of DNA helicase II from a uvrD252 mutant of Escherichia coli. <i>Journal of Bacteriology</i> , 1993 , 175, 341-50	3.5	21
67	Analysis of mRNA decay and rRNA processing in Escherichia coli multiple mutants carrying a deletion in RNase III. <i>Journal of Bacteriology</i> , 1993 , 175, 229-39	3.5	106
66	Identification of endonucleolytic cleavage sites involved in decay of Escherichia coli trxA mRNA. <i>Journal of Bacteriology</i> , 1993 , 175, 1043-52	3.5	31
65	Role of the heat shock response in stability of mRNA in Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1992 , 174, 743-8	3.5	22
64	Construction and analysis of deletions in the structural gene (uvrD) for DNA helicase II of Escherichia coli. <i>Journal of Bacteriology</i> , 1991 , 173, 2569-75	3.5	67
63	The Ams (altered mRNA stability) protein and ribonuclease E are encoded by the same structural gene of Escherichia coli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 1-5	11.5	267
62	The role of the σ factor in the transcription of essential genes. <i>Molecular Microbiology</i> , 1991 , 5, 2085-91	4.1	68
61	Extracellular release of protease III (ptr) by Escherichia coli K12. <i>Canadian Journal of Microbiology</i> , 1991 , 37, 718-21	3.2	2
60	Construction of versatile low-copy-number vectors for cloning, sequencing and gene expression in Escherichia coli. <i>Gene</i> , 1991 , 100, 195-199	3.8	1010
59	Isolation and characterization of a new temperature-sensitive polynucleotide phosphorylase mutation in Escherichia coli K-12. <i>Biochimie</i> , 1990 , 72, 835-43	4.6	24
58	Cloning of the altered mRNA stability (ams) gene of Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1989 , 171, 5479-86	3.5	39
57	New method for generating deletions and gene replacements in Escherichia coli. <i>Journal of Bacteriology</i> , 1989 , 171, 4617-22	3.5	646
56	CLONING: a microcomputer program for cloning simulations. <i>Gene</i> , 1988 , 65, 111-6	3.8	4
55	Transcript mapping using [35S]DNA probes, trichloroacetate solvent and dideoxy sequencing ladders: a rapid method for identification of transcriptional start points. <i>Gene</i> , 1988 , 65, 101-10	3.8	43
54	Generation of a detailed physical and genetic map of the ilv-metE-udp region of the Escherichia coli chromosome. <i>Journal of Molecular Biology</i> , 1988 , 200, 427-38	6.5	17

53	Instructions for the CLONING program. <i>Gene</i> , 1988 , 65, 117-22	3.8	2
52	Stabilization of discrete mRNA breakdown products in <i>ams pnp rnb</i> multiple mutants of <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 4625-33	3.5	211
51	Physical and biochemical characterization of cloned <i>sbcB</i> and <i>xonA</i> mutations from <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1988 , 170, 2089-94	3.5	52
50	Identification, cloning, and expression of <i>bolA</i> , an <i>ftsZ</i> -dependent morphogene of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988 , 170, 5169-76	3.5	113
49	Analysis of the regulatory region of the protease III (<i>ptr</i>) gene of <i>Escherichia coli</i> K-12. <i>Gene</i> , 1987 , 54, 185-95	3.8	15
48	Polynucleotide phosphorylase and ribonuclease II are required for cell viability and mRNA turnover in <i>Escherichia coli</i> K-12. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 120-4	11.5	393
47	The simple repeat poly(dT-dG).poly(dC-dA) common to eukaryotes is absent from eubacteria and archaeobacteria and rare in protozoans. <i>Molecular Biology and Evolution</i> , 1986 , 3, 343-55	8.3	20
46	Alberta's Construction Labour Relations During the Recent Downturn. <i>Industrial Relations</i> , 1986 , 41, 778-801	8.1	2
45	Involvement of helicase II (<i>uvrD</i> gene product) and DNA polymerase I in excision mediated by the <i>uvrABC</i> protein complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 4925-9	11.5	191
44	Physical characterization of the cloned protease III gene from <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1985 , 163, 1055-9	3.5	24
43	Nucleotide sequence of the thioredoxin gene from <i>Escherichia coli</i> . <i>Bioscience Reports</i> , 1984 , 4, 917-23	4.1	42
42	Genetic and physical analysis of the thioredoxin (<i>trxA</i>) gene of <i>Escherichia coli</i> K-12. <i>Gene</i> , 1984 , 32, 399-408	4.8	36
41	Physical and biochemical analysis of the cloned <i>recB</i> and <i>recC</i> genes of <i>Escherichia coli</i> K-12. <i>Journal of Bacteriology</i> , 1984 , 157, 21-7	3.5	63
40	Exonucleases I, III, and V are required for stability of <i>ColE1</i> -related plasmids in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1984 , 157, 661-4	3.5	43
39	Purification and characterization of exonuclease V from <i>Escherichia coli</i> K-12. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1984 , 49, 463-7	3.9	23
38	Cloning and physical analysis of the <i>pyrF</i> gene (coding for orotidine-5-phosphate decarboxylase) from <i>Escherichia coli</i> K-12. <i>Gene</i> , 1983 , 25, 39-48	3.8	25
37	Amplification of ribonuclease II (<i>rnb</i>) activity in <i>Escherichia coli</i> K-12. <i>Nucleic Acids Research</i> , 1983 , 11, 265-75	20.1	52
36	Transcription of the <i>uvrD</i> gene of <i>Escherichia coli</i> is controlled by the <i>lexA</i> repressor and by attenuation. <i>Nucleic Acids Research</i> , 1983 , 11, 8625-40	20.1	43

35	Purification and characterization of orotidine-5Sphosphate decarboxylase from Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1983 , 156, 620-4	3.5	20
34	DNA repair in Escherichia coli: identification of the uvrD gene product. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982 , 79, 5616-20	11.5	82
33	The cloning and analysis of the aroD gene of E. coli K-12. <i>Gene</i> , 1981 , 14, 73-80	3.8	13
32	Cloning the quinic acid (aq) gene cluster from Neurospora crassa: identification of recombinant plasmids containing both qa-2+ and qa-3+. <i>Gene</i> , 1981 , 14, 23-32	3.8	21
31	Identification and characterization of recombinant plasmids carrying the complete qa gene cluster from Neurospora crassa including the qa-1+ regulatory gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 5086-90	11.5	109
30	Genetic organization and transcriptional regulation in the qa gene cluster of Neurospora crassa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 5783-7	11.5	54
29	Expression of the HIS3 gene of Saccharomyces cerevisiae in polynucleotide phosphorylase-deficient strains of Escherichia coli K-12. <i>Gene</i> , 1980 , 12, 1-10	3.8	12
28	Isolation of plasmids carrying either the uvrC or uvrC uvrA and ssb genes of Escherichia coli K-12. <i>Gene</i> , 1980 , 12, 243-8	3.8	17
27	Constitutive expression in Escherichia coli of the Neurospora crassa structural gene encoding the inducible enzyme catabolic dehydroquinase. <i>Molecular Genetics and Genomics</i> , 1979 , 172, 93-8		8
26	Increased expression of a eukaryotic gene in Escherichia coli through stabilization of its messenger RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1979 , 76, 5774-8	11.5	42
25	Efficient transformation of Neurospora crassa by utilizing hybrid plasmid DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1979 , 76, 5259-63	11.5	289
24	Chloroplast ribosomal RNA genes in Euglena gracilis exist as three clustered tandem repeats. <i>Gene</i> , 1978 , 3, 191-209	3.8	74
23	Transcription and translation in E. coli of hybrid plasmids containing the catabolic dehydroquinase gene from Neurospora crassa. <i>Gene</i> , 1978 , 4, 241-59	3.8	34
22	Recombinant levels of Escherichia coli K-12 mutants deficient in various replication, recombination, or repair genes. <i>Journal of Bacteriology</i> , 1978 , 134, 958-66	3.5	112
21	Conditionally lethal ribosomal protein mutants: characterization of a locus required for modification of 50S subunit proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 467-71	11.5	17
20	Expression in Escherichia coli K-12 of the structural gene for catabolic dehydroquinase of Neurospora crassa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1977 , 74, 3508-12	11.5	103
19	Transcription of ribosomal protein genes carried on FSplasmids of Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1977 , 150, 183-91		
18	Analysis of genetic recombination between two partially deleted lactose operons of Escherichia coli K-12. <i>Journal of Bacteriology</i> , 1977 , 131, 123-32	3.5	61

17	Amplification in <i>Escherichia coli</i> of enzymes involved in genetic recombination: construction of hybrid ColE1 plasmids carrying the structural gene for exonuclease I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976 , 73, 3492-6	11.5	48
16	A proposal for a uniform nomenclature for the genetics of bacterial protein synthesis. <i>Molecular Genetics and Genomics</i> , 1976 , 147, 145-51		8
15	Analysis of temperature-sensitive recB and recC mutations. <i>Basic Life Sciences</i> , 1975 , 5A, 301-6		1
14	Isolation of exonuclease VIII: the enzyme associated with sbcA indirect suppressor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1974 , 71, 3593-7	11.5	95
13	In vivo studies of temperature-sensitive recB and recC mutants. <i>Journal of Bacteriology</i> , 1974 , 120, 1213-8	8.5	84
12	Differential thermolability of exonuclease and endonuclease activities of the recBC nuclease isolated from thermosensitive recB and recC mutants. <i>Journal of Bacteriology</i> , 1974 , 120, 1219-22	3.5	40
11	Isolation of the Enzyme Associated with the sbcA Indirect Suppressor 1974 , 137-143		4
10	Indirect suppression of recB and recC mutations by exonuclease I deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1972 , 69, 1366-70	11.5	127
9	GENETIC ANALYSIS OF MUTATIONS INDIRECTLY SUPPRESSING recB AND recC MUTATIONS. <i>Genetics</i> , 1972 , 72, 205-215	4	83
8	Enzymatic repair of DNA. 3. Properties of the UV-endonuclease and UV-exonuclease. <i>Biochemistry</i> , 1971 , 10, 3315-24	3.2	144
7	Enzymatic repair of deoxyribonucleic acid. IV. Mechanism of photoproduct excision. <i>Biochemistry</i> , 1971 , 10, 3325-34	3.2	65
6	Genetic recombination in <i>Escherichia coli</i> : the role of exonuclease I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1971 , 68, 824-7	11.5	312
5	In vivo role of the UV-endonuclease from <i>Micrococcus luteus</i> in the repair of DNA. <i>Nature: New Biology</i> , 1971 , 234, 47-50		18
4	Enzymatic repair of DNA, 1. Purification of two enzymes involved in the excision of thymine dimers from ultraviolet-irradiated DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1969 , 63, 144-51	11.5	95
3	Enzymes involved in the early stages of repair of ultraviolet-irradiated DNA. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1968 , 33, 229-34	3.9	34
2	mRNA Decay and Processing 327-345		2
1	Messenger RNA in Prokaryotes 1-11		