

Anne E Willis

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

10,622
citations

28274

55
h-index

32842

100
g-index

131
all docs

131
docs citations

131
times ranked

13789
citing authors

#	ARTICLE	IF	CITATIONS
1	Translational Regulation of Gene Expression during Conditions of Cell Stress. <i>Molecular Cell</i> , 2010, 40, 228-237.	9.7	607
2	Sustained translational repression by eIF2 γ -P mediates prion neurodegeneration. <i>Nature</i> , 2012, 485, 507-511.	27.8	538
3	Oral Treatment Targeting the Unfolded Protein Response Prevents Neurodegeneration and Clinical Disease in Prion-Infected Mice. <i>Science Translational Medicine</i> , 2013, 5, 206ra138.	12.4	480
4	Cellular internal ribosome entry segments: structures, trans-acting factors and regulation of gene expression. <i>Oncogene</i> , 2004, 23, 3200-3207.	5.9	321
5	C-Myc 5' untranslated region contains an internal ribosome entry segment. <i>Oncogene</i> , 1998, 16, 423-428.	5.9	306
6	The implications of structured 5' untranslated regions on translation and disease. <i>Seminars in Cell and Developmental Biology</i> , 2005, 16, 39-47.	5.0	296
7	Multiple display of foreign peptides on a filamentous bacteriophage. <i>Journal of Molecular Biology</i> , 1991, 220, 821-827.	4.2	291
8	Polypyrimidine-tract-binding protein: a multifunctional RNA-binding protein. <i>Biochemical Society Transactions</i> , 2008, 36, 641-647.	3.4	283
9	mTORC1-mediated translational elongation limits intestinal tumour initiation and growth. <i>Nature</i> , 2015, 517, 497-500.	27.8	257
10	Comprehensive identification of RNA-protein interactions in any organism using orthogonal organic phase separation (OOPS). <i>Nature Biotechnology</i> , 2019, 37, 169-178.	17.5	247
11	Reprogramming of translation following cell stress allows IRES-mediated translation to predominate. <i>Biology of the Cell</i> , 2008, 100, 27-38.	2.0	235
12	The Apaf-1 Internal Ribosome Entry Segment Attains the Correct Structural Conformation for Function via Interactions with PTB and unr. <i>Molecular Cell</i> , 2003, 11, 757-771.	9.7	222
13	Members of the poly (rC) binding protein family stimulate the activity of the c-myc internal ribosome entry segment in vitro and in vivo. <i>Oncogene</i> , 2003, 22, 8012-8020.	5.9	205
14	c-Myc Protein Synthesis Is Initiated from the Internal Ribosome Entry Segment during Apoptosis. <i>Molecular and Cellular Biology</i> , 2000, 20, 1162-1169.	2.3	203
15	RBM3 mediates structural plasticity and protective effects of cooling in neurodegeneration. <i>Nature</i> , 2015, 518, 236-239.	27.8	189
16	Initiation of Apaf-1 translation by internal ribosome entry. <i>Oncogene</i> , 2000, 19, 899-905.	5.9	186
17	Translation reprogramming is an evolutionarily conserved driver of phenotypic plasticity and therapeutic resistance in melanoma. <i>Genes and Development</i> , 2017, 31, 18-33.	5.9	184
18	DNA ligase I deficiency in Bloom's syndrome. <i>Nature</i> , 1987, 325, 355-357.	27.8	174

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19	A MAPK/HNRPK pathway controls BCR/ABL oncogenic potential by regulating MYC mRNA translation. <i>Blood</i> , 2006, 107, 2507-2516.	1.4	174
20	A perspective on mammalian upstream open reading frame function. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 1690-1700.	2.8	170
21	Translational induction of the c-myc oncogene via activation of the FRAP/TOR signalling pathway. <i>Oncogene</i> , 1998, 17, 769-780.	5.9	169
22	The mechanism of micro-RNA-mediated translation repression is determined by the promoter of the target gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8866-8871.	7.1	167
23	p38 MAPK/MK2-mediated induction of miR-34c following DNA damage prevents Myc-dependent DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5375-5380.	7.1	159
24	Protein Factor Requirements of the Apaf-1 Internal Ribosome Entry Segment: Roles of Polypyrimidine Tract Binding Protein and upstream of N-ras. <i>Molecular and Cellular Biology</i> , 2001, 21, 3364-3374.	2.3	139
25	A mutation in the c-myc-IRES leads to enhanced internal ribosome entry in multiple myeloma: A novel mechanism of oncogene de-regulation. <i>Oncogene</i> , 2000, 19, 4437-4440.	5.9	133
26	Polypyrimidine Tract Binding Protein Regulates IRES-Mediated Gene Expression during Apoptosis. <i>Molecular Cell</i> , 2006, 23, 401-412.	9.7	132
27	The biological and therapeutic relevance of mRNA translation in cancer. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 280-291.	27.6	131
28	Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage. <i>Gene</i> , 1993, 128, 79-83.	2.2	130
29	The Pathogenic Mechanism of the <i>Mycobacterium ulcerans</i> Virulence Factor, Mycolactone, Depends on Blockade of Protein Translocation into the ER. <i>PLoS Pathogens</i> , 2014, 10, e1004061.	4.7	129
30	Translational reprogramming following UVB irradiation is mediated by DNA-PKcs and allows selective recruitment to the polysomes of mRNAs encoding DNA repair enzymes. <i>Genes and Development</i> , 2009, 23, 1207-1220.	5.9	128
31	Elp3 links tRNA modification to IRES-dependent translation of LEF1 to sustain metastasis in breast cancer. <i>Journal of Experimental Medicine</i> , 2016, 213, 2503-2523.	8.5	128
32	Translational control of growth factor and proto-oncogene expression. <i>International Journal of Biochemistry and Cell Biology</i> , 1999, 31, 73-86.	2.8	120
33	Enhancing nucleotide metabolism protects against mitochondrial dysfunction and neurodegeneration in a PINK1 model of Parkinson's disease. <i>Nature Cell Biology</i> , 2014, 16, 157-166.	10.3	119
34	RNA Binding Protein/RNA Element Interactions and the Control of Translation. <i>Current Protein and Peptide Science</i> , 2012, 13, 294-304.	1.4	118
35	Identification of Internal Ribosome Entry Segment (IRES)-Acting Factors for the Myc Family of IRESs. <i>Molecular and Cellular Biology</i> , 2008, 28, 40-49.	2.3	117
36	Identification of a motif that mediates polypyrimidine tract-binding protein-dependent internal ribosome entry. <i>Genes and Development</i> , 2005, 19, 1556-1571.	5.9	110

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37	The role of IRES <i>trans</i> -acting factors in regulating translation initiation. <i>Biochemical Society Transactions</i> , 2010, 38, 1581-1586.	3.4	104
38	Ribosomal Protein S25 Dependency Reveals a Common Mechanism for Diverse Internal Ribosome Entry Sites and Ribosome Shunting. <i>Molecular and Cellular Biology</i> , 2013, 33, 1016-1026.	2.3	97
39	Long-Fiber Carbon Nanotubes Replicate Asbestos-Induced Mesothelioma with Disruption of the Tumor Suppressor Gene <i>Cdkn2a</i> (<i>Ink4a/Arf</i>). <i>Current Biology</i> , 2017, 27, 3302-3314.e6.	3.9	96
40	The RNA binding protein <i>Larp1</i> regulates cell division, apoptosis and cell migration. <i>Nucleic Acids Research</i> , 2010, 38, 5542-5553.	14.5	94
41	<i>Bag-1</i> Internal Ribosome Entry Segment Activity Is Promoted by Structural Changes Mediated by Poly(rC) Binding Protein 1 and Recruitment of Polypyrimidine Tract Binding Protein 1. <i>Molecular and Cellular Biology</i> , 2004, 24, 5595-5605.	2.3	88
42	The involvement of microRNAs in Type 2 diabetes. <i>Biochemical Society Transactions</i> , 2010, 38, 1565-1570.	3.4	87
43	Cytosine-5 RNA methylation links protein synthesis to cell metabolism. <i>PLoS Biology</i> , 2019, 17, e3000297.	5.6	87
44	Internal ribosome entry segment-mediated initiation of c-Myc protein synthesis following genotoxic stress. <i>Biochemical Journal</i> , 2001, 359, 183-192.	3.7	86
45	Derivation of a structural model for the c-myc IRES Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2001, 310, 111-126.	4.2	82
46	A novel method for poly(A) fractionation reveals a large population of mRNAs with a short poly(A) tail in mammalian cells. <i>Nucleic Acids Research</i> , 2007, 35, e132.	14.5	81
47	The p36 isoform of BAG-1 is translated by internal ribosome entry following heat shock. <i>Oncogene</i> , 2001, 20, 4095-4100.	5.9	80
48	<i>Trans</i> -acting translational regulatory RNA binding proteins. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018, 9, e1465.	6.4	79
49	Structural Mimicry and Enhanced Immunogenicity of Peptide Epitopes Displayed on Filamentous Bacteriophage. <i>Journal of Molecular Biology</i> , 1994, 243, 167-172.	4.2	78
50	Polypyrimidine tract binding protein and poly r(C) binding protein 1 interact with the BAG-1 IRES and stimulate its activity in vitro and in vivo. <i>Nucleic Acids Research</i> , 2003, 31, 639-646.	14.5	73
51	Dysregulation of protein synthesis and disease. <i>Journal of Pathology</i> , 2010, 220, 140-151.	4.5	72
52	Phosphorylation of elongation factor-2 kinase on serine 499 by cAMP-dependent protein kinase induces Ca ²⁺ /calmodulin-independent activity. <i>Biochemical Journal</i> , 2001, 353, 621-626.	3.7	67
53	The mTOR regulated RNA-binding protein LARP1 requires PABPC1 for guided mRNA interaction. <i>Nucleic Acids Research</i> , 2021, 49, 458-478.	14.5	66
54	Post-transcriptional control of gene expression following stress: the role of RNA-binding proteins. <i>Biochemical Society Transactions</i> , 2017, 45, 1007-1014.	3.4	65

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55	RTN3 Is a Novel Cold-Induced Protein and Mediates Neuroprotective Effects of RBM3. <i>Current Biology</i> , 2017, 27, 638-650.	3.9	64
56	N-myc translation is initiated via an internal ribosome entry segment that displays enhanced activity in neuronal cells. <i>Oncogene</i> , 2001, 20, 2664-2670.	5.9	63
57	Control of translation elongation in health and disease. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	62
58	Inhibition of Sec61-dependent translocation by mycolactone uncouples the integrated stress response from ER stress, driving cytotoxicity via translational activation of ATF4. <i>Cell Death and Disease</i> , 2018, 9, 397.	6.3	59
59	Internal ribosome entry segment-mediated initiation of c-Myc protein synthesis following genotoxic stress. <i>Biochemical Journal</i> , 2001, 359, 183.	3.7	57
60	Engagement of the B-cell receptor of chronic lymphocytic leukemia cells drives global and MYC-specific mRNA translation. <i>Blood</i> , 2016, 127, 449-457.	1.4	56
61	Suboptimal T-cell receptor signaling compromises protein translation, ribosome biogenesis, and proliferation of mouse CD8 T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6117-E6126.	7.1	55
62	Canonical Initiation Factor Requirements of the Myc Family of Internal Ribosome Entry Segments. <i>Molecular and Cellular Biology</i> , 2009, 29, 1565-1574.	2.3	54
63	MNK Inhibition Sensitizes KRAS-Mutant Colorectal Cancer to mTORC1 Inhibition by Reducing eIF4E Phosphorylation and c-MYC Expression. <i>Cancer Discovery</i> , 2021, 11, 1228-1247.	9.4	45
64	L-Myc protein synthesis is initiated by internal ribosome entry. <i>Rna</i> , 2004, 10, 287-298.	3.5	42
65	p58IPK is an inhibitor of the eIF2 α kinase GCN2 and its localization and expression underpin protein synthesis and ER processing capacity. <i>Biochemical Journal</i> , 2015, 465, 213-225.	3.7	42
66	The human insulin receptor mRNA contains a functional internal ribosome entry segment. <i>Nucleic Acids Research</i> , 2009, 37, 5881-5893.	14.5	41
67	Engineering a peptide epitope display system on filamentous bacteriophage. <i>FEMS Microbiology Reviews</i> , 1995, 17, 25-31.	8.6	40
68	Eukaryotic elongation factor 2 kinase regulates the cold stress response by slowing translation elongation. <i>Biochemical Journal</i> , 2015, 465, 227-238.	3.7	39
69	Organic phase separation opens up new opportunities to interrogate the RNA-binding proteome. <i>Current Opinion in Chemical Biology</i> , 2020, 54, 70-75.	6.1	35
70	A common polymorphism in the 5' UTR of ERCC5 creates an upstream ORF that confers resistance to platinum-based chemotherapy. <i>Genes and Development</i> , 2015, 29, 1891-1896.	5.9	32
71	TAp73 contributes to the oxidative stress response by regulating protein synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6219-6224.	7.1	32
72	Failure of Translation of Human Adenovirus mRNA in Murine Cancer Cells Can be Partially Overcome by L4-100K Expression In Vitro and In Vivo. <i>Molecular Therapy</i> , 2012, 20, 1676-1688.	8.2	30

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73	Unresolved stalled ribosome complexes restrict cell-cycle progression after genotoxic stress. <i>Molecular Cell</i> , 2022, 82, 1557-1572.e7.	9.7	30
74	Chapter 9 Viral Strategies to Subvert the Mammalian Translation Machinery. <i>Progress in Molecular Biology and Translational Science</i> , 2009, 90, 313-367.	1.7	28
75	Translation initiation in cancer at a glance. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	28
76	A protease-activatable luminescent biosensor and reporter cell line for authentic SARS-CoV-2 infection. <i>PLoS Pathogens</i> , 2022, 18, e1010265.	4.7	28
77	Cooling-induced SUMOylation of EXOSC10 down-regulates ribosome biogenesis. <i>Rna</i> , 2016, 22, 623-635.	3.5	27
78	Temporal Regulation of Distinct Internal Ribosome Entry Sites of the Dicistroviridae Cricket Paralysis Virus. <i>Viruses</i> , 2016, 8, 25.	3.3	25
79	Design of nucleotide-mimetic and non-nucleotide inhibitors of the translation initiation factor eIF4E: Synthesis, structural and functional characterisation. <i>European Journal of Medicinal Chemistry</i> , 2016, 124, 200-217.	5.5	23
80	Structure of a malaria parasite antigenic determinant displayed on filamentous bacteriophage determined by NMR spectroscopy: Implications for the structure of continuous peptide epitopes of proteins. <i>Protein Science</i> , 2001, 10, 1150-1159.	7.6	21
81	Aberrant Regulation of Translation Initiation in Tumorigenesis. <i>Current Molecular Medicine</i> , 2003, 3, 597-603.	1.3	21
82	Active regulator of SIRT1 is required for ribosome biogenesis and function. <i>Nucleic Acids Research</i> , 2013, 41, 4185-4197.	14.5	21
83	Signaling from mTOR to eIF2 \pm mediates cell migration in response to the chemotherapeutic doxorubicin. <i>Science Signaling</i> , 2019, 12, .	3.6	21
84	eIF4A Inhibition Allows Translational Regulation of mRNAs Encoding Proteins Involved in Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e13030.	2.5	20
85	The cell stress response: extreme times call for post-transcriptional measures. <i>Wiley Interdisciplinary Reviews RNA</i> , 2020, 11, e1578.	6.4	20
86	The pathogenesis of mesothelioma is driven by a dysregulated translome. <i>Nature Communications</i> , 2021, 12, 4920.	12.8	20
87	Identification of the RNA polymerase I-RNA interactome. <i>Nucleic Acids Research</i> , 2018, 46, 11002-11013.	14.5	19
88	Metabolic profiling of human CD4 $^+$ cells following treatment with methotrexate and anti-TNF \pm infliximab. <i>Cell Cycle</i> , 2013, 12, 3025-3036.	2.6	18
89	Engineered transient and stable overexpression of translation factors eIF3i and eIF3c in CHOK1 and HEK293 cells gives enhanced cell growth associated with increased c-Myc expression and increased recombinant protein synthesis. <i>Metabolic Engineering</i> , 2020, 59, 98-105.	7.0	17
90	The chaperonin CCT interacts with and mediates the correct folding and activity of three subunits of translation initiation factor eIF3: b, i and h. <i>Biochemical Journal</i> , 2014, 458, 213-224.	3.7	16

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91	CD40L/IL-4-stimulated CLL demonstrates variation in translational regulation of DNA damage response genes including ATM. <i>Blood Advances</i> , 2018, 2, 1869-1881.	5.2	15
92	Efficient recovery of the RNA-bound proteome and protein-bound transcriptome using phase separation (OOPS). <i>Nature Protocols</i> , 2020, 15, 2568-2588.	12.0	15
93	Rpl24Bst mutation suppresses colorectal cancer by promoting eEF2 phosphorylation via eEF2K. <i>ELife</i> , 2021, 10, .	6.0	15
94	Identification of a novel toxicophore in anti-cancer chemotherapeutics that targets mitochondrial respiratory complex I. <i>ELife</i> , 2020, 9, .	6.0	14
95	Cancer predisposition in bloom's syndrome. <i>BioEssays</i> , 1992, 14, 333-336.	2.5	13
96	Generation of 73 Proteins by Translation from a Putative Internal Ribosome Entry Site. <i>Annals of the New York Academy of Sciences</i> , 2007, 1095, 315-324.	3.8	12
97	Integrated genomics point to immune vulnerabilities in pleural mesothelioma. <i>Scientific Reports</i> , 2021, 11, 19138.	3.3	12
98	Concomitant reversion of the characteristic phenotypic properties of a cell line of Bloom's syndrome origin. <i>Carcinogenesis</i> , 1989, 10, 217-219.	2.8	10
99	Brf1 loss and not overexpression disrupts tissues homeostasis in the intestine, liver and pancreas. <i>Cell Death and Differentiation</i> , 2019, 26, 2535-2550.	11.2	10
100	Rapamycin regulates biochemical metabolites. <i>Cell Cycle</i> , 2013, 12, 2454-2467.	2.6	8
101	Translation deregulation in B-cell lymphomas. <i>Biochemical Society Transactions</i> , 2010, 38, 1593-1597.	3.4	7
102	PEITC-mediated inhibition of mRNA translation is associated with both inhibition of mTORC1 and increased eIF2 γ phosphorylation in established cell lines and primary human leukemia cells. <i>Oncotarget</i> , 2016, 7, 74807-74819.	1.8	7
103	Aberrant protein synthesis and cancer development: The role of canonical eukaryotic initiation, elongation and termination factors in tumorigenesis. <i>Seminars in Cancer Biology</i> , 2022, 86, 151-165.	9.6	7
104	Large scale integration of drug-target information reveals poly-pharmacological drug action mechanisms in tumor cell line growth inhibition assays. <i>Oncotarget</i> , 2014, 5, 659-666.	1.8	5
105	An improved analysis methodology for translational profiling by microarray. <i>Rna</i> , 2017, 23, 1601-1613.	3.5	5
106	Co-ordinated regulation of translation following DNA damage. <i>Cell Cycle</i> , 2009, 8, 3067-3068.	2.6	4
107	Control of translation in the cold: implications for therapeutic hypothermia. <i>Biochemical Society Transactions</i> , 2015, 43, 333-337.	3.4	4
108	Cap-Independent Translation in Hematological Malignancies. <i>Frontiers in Oncology</i> , 2015, 5, 293.	2.8	4

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109	Post-transcriptional control of stress responses in cancer. <i>Current Opinion in Genetics and Development</i> , 2018, 48, 30-35.	3.3	4
110	Sustained protein synthesis and reduced eEF2K levels in TAp73 ^{-/-} mice brain: a possible compensatory mechanism. <i>Cell Cycle</i> , 2018, 17, 2637-2643.	2.6	4
111	Should I Stay or Should I Go: eIF3 Remains Ribosome Associated and Is Required for Elongation. <i>Molecular Cell</i> , 2020, 79, 539-541.	9.7	3
112	Development of a colorimetric assay for the detection of SARS-CoV-2 3CLpro activity. <i>Biochemical Journal</i> , 2022, 479, 901-920.	3.7	3
113	eIF4G. , 2014, , 163-171.		2
114	Full-length NF- κ B repressing factor contains an XRN2 binding domain. <i>Biochemical Journal</i> , 2020, 477, 773-786.	3.7	2
115	Frozen? Let it go to reset circadian rhythms. <i>EMBO Journal</i> , 2020, 39, e106711.	7.8	2
116	SF2/ASF TORCs Up Translation. <i>Molecular Cell</i> , 2008, 30, 262-263.	9.7	1
117	Translational Control: Selective Upregulation of ECM Components Drives Tumour Growth. <i>Current Biology</i> , 2016, 26, R241-R243.	3.9	1
118	Engineering a peptide epitope display system on filamentous bacteriophage. <i>FEMS Microbiology Reviews</i> , 1995, 17, 25-31.	8.6	1
119	REMOVED: Translational profiling of multiple myeloma cell lines RPMI8226 and 8226/R5 to discover novel markers of disease and drug resistance. <i>Toxicology</i> , 2011, 290, 116-117.	4.2	0
120	TRANS PROF DB: A new resource for sharing translational profiles. <i>Translation</i> , 2014, 2, e965615.	2.9	0
121	Till stress do us ataRT: a novel toxin-antitoxin system targeting translation initiation. <i>Cell Death and Differentiation</i> , 2017, 24, 951-952.	11.2	0
122	Don't shoot the messenger- shoot the reader. <i>Molecular Cell</i> , 2021, 81, 3041-3042.	9.7	0
123	Hypoxia: Uncharged tRNA to the Rescue!. <i>Current Biology</i> , 2021, 31, R25-R27.	3.9	0
124	Mammalian DNA Ligases and the Molecular Defect in Bloom's Syndrome. , 1989, , 429-438.		0
125	eEF2K activity is required for the phenotypes of the Rpl24 mouse. <i>Journal of Investigative Dermatology</i> , 2022, , .	0.7	0