Marvin Wickens

List of Publications by Citations

89 papers	6,352 citations	41 h-index	79 g-index
100 ext. papers	7,090 ext. citations	12 avg, IF	5.72 L-index

#	Paper	IF	Citations
89	A PUF family portrait: 3′UTR regulation as a way of life. *Trends in Genetics*, **2002**, 18, 150-7	8.5	487
88	Control of translation initiation in animals. *Annual Review of Cell and Developmental Biology*, **1998**, 14, 399-458	12.6	447
87	A conserved RNA-binding protein controls germline stem cells in Caenorhabditis elegans. *Nature*, **2002**, 417, 660-3	50.4	341
86	Life and death in the cytoplasm: messages from the 3′end. *Current Opinion in Genetics and Development*, **1997**, 7, 220-32	4.9	296
85	Multifunctional deadenylase complexes diversify mRNA control. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 337-44	48.7	287
84	PUF proteins bind Pop2p to regulate messenger RNAs. *Nature Structural and Molecular Biology*, **2006**, 13, 533-9	17.6	247
83	A regulatory cytoplasmic poly(A) polymerase in Caenorhabditis elegans. *Nature*, **2002**, 419, 312-6	50.4	241
82	NANOS-3 and FBF proteins physically interact to control the sperm-oocyte switch in Caenorhabditis elegans. *Current Biology*, **1999**, 9, 1009-18	6.3	222
81	Polyadenylation of c-mos mRNA as a control point in Xenopus meiotic maturation. *Nature*, **1995**, 374, 511-6	50.4	217
80	FBF-1 and FBF-2 regulate the size of the mitotic region in the C. elegans germline. *Developmental Cell*, **2004**, 7, 697-707	10.2	142
79	PUF protein-mediated deadenylation is catalyzed by Ccr4p. *Journal of Biological Chemistry*, **2007**, 282, 109-14	5.4	121
78	CPEB proteins control two key steps in spermatogenesis in C. elegans. *Genes and Development*, **2000**, 14, 2596-609	12.6	121
77	Mammalian GLD-2 homologs are poly(A) polymerases. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 4407-12	11.5	119
76	GLD-3, a bicaudal-C homolog that inhibits FBF to control germline sex determination in C. elegans. *Developmental Cell*, **2002**, 3, 697-710	10.2	114
75	A family of poly(U) polymerases. *Rna*, **2007**, 13, 860-7	5.8	112
74	Analyzing mRNA-protein complexes using a yeast three-hybrid system. *Methods*, **2002**, 26, 123-41	4.6	111
73	FBF and its dual control of gld-1 expression in the Caenorhabditis elegans germline. *Genetics*, **2009**, 181, 1249-60	4	99

72	Binding specificity and mRNA targets of a C. elegans PUF protein, FBF-1. *Rna*, **2005**, 11, 447-58	5.8	99
71	Conserved regulation of MAP kinase expression by PUF RNA-binding proteins. *PLoS Genetics*, **2007**, 3, e233	6	98
70	RNA-protein interactions in the yeast three-hybrid system: affinity, sensitivity, and enhanced library screening. *Rna*, **2005**, 11, 227-33	5.8	96
69	PAP- and GLD-2-type poly(A) polymerases are required sequentially in cytoplasmic polyadenylation and oogenesis in Drosophila. *Development (Cambridge)*, **2008**, 135, 1969-79	6.6	95
68	Structural basis for specific recognition of multiple mRNA targets by a PUF regulatory protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20186-91	11.5	94
67	Translational repression by deadenylases. *Journal of Biological Chemistry*, **2010**, 285, 28506-13	5.4	92
66	Cooperativity in RNA-protein interactions: global analysis of RNA binding specificity. *Cell Reports*, **2012**, 1, 570-81	10.6	86
65	Vertebrate GLD2 poly(A) polymerases in the germline and the brain. *Rna*, **2005**, 11, 1117-30	5.8	84
64	A single spacer nucleotide determines the specificities of two mRNA regulatory proteins. *Nature Structural and Molecular Biology*, **2005**, 12, 945-51	17.6	78
63	Two yeast PUF proteins negatively regulate a single mRNA. *Journal of Biological Chemistry*, **2007**, 282, 15430-8	5.4	73
62	A 5Vcytosine binding pocket in Puf3p specifies regulation of mitochondrial mRNAs. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20192-7	11.5	72
61	Purification of RNA and RNA-protein complexes by an R17 coat protein affinity method. *Nucleic Acids Research*, **1990**, 18, 6587-94	20.1	70
60	Dose-dependent control of proliferation and sperm specification by FOG-1/CPEB. *Development (Cambridge)*, **2005**, 132, 3471-81	6.6	67
59	Targeted translational regulation using the PUF protein family scaffold. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 15870-5	11.5	64
58	GLD2 poly(A) polymerase is required for long-term memory. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 14644-9	11.5	64
57	LIP-1 phosphatase controls the extent of germline proliferation in Caenorhabditis elegans. *EMBO Journal*, **2006**, 25, 88-96	13	63
56	A protein-RNA specificity code enables targeted activation of an endogenous human transcript. *Nature Structural and Molecular Biology*, **2014**, 21, 732-8	17.6	62
55	Identification of RNAs that bind to a specific protein using the yeast three-hybrid system. *Rna*, **1999**, 5, 596-601	5.8	58

54	Protein-RNA networks revealed through covalent RNA marks. *Nature Methods*, **2015**, 12, 1163-70	21.6	56
53	Analysis of yeast prp20 mutations and functional complementation by the human homologue RCC1, a protein involved in the control of chromosome condensation. *Molecular Genetics and Genomics*, **1991**, 227, 417-23		50
52	RNA regulatory networks diversified through curvature of the PUF protein scaffold. *Nature Communications*, **2015**, 6, 8213	17.4	44
51	Multi-omics Reveal Specific Targets of the RNA-Binding Protein Puf3p and Its Orchestration of Mitochondrial Biogenesis. *Cell Systems*, **2018**, 6, 125-135.e6	10.6	43
50	Poly(A) polymerase and the regulation of cytoplasmic polyadenylation. *Journal of Biological Chemistry*, **2001**, 276, 41810-6	5.4	43
49	RNA targets and specificity of Staufen, a double-stranded RNA-binding protein in Caenorhabditis elegans. *Journal of Biological Chemistry*, **2013**, 288, 2532-45	5.4	41
48	poly(UG)-tailed RNAs in genome protection and epigenetic inheritance. *Nature*, **2020**, 582, 283-288	50.4	38
47	Stacking interactions in PUF-RNA complexes. *Rna*, **2011**, 17, 718-27	5.8	38
46	A Caenorhabditis elegans PUF protein family with distinct RNA binding specificity. *Rna*, **2008**, 14, 1550-7	5.8	38
45	Patterns and plasticity in RNA-protein interactions enable recruitment of multiple proteins through a single site. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6054-9	11.5	36
44	Molecular biology. A place to die, a place to sleep. *Science*, **2003**, 300, 753-5	33.3	36
43	Tethered function assays using 3Vuntranslated regions. *Methods*, **2002**, 26, 142-50	4.6	36
42	The PUF binding landscape in metazoan germ cells. *Rna*, **2016**, 22, 1026-43	5.8	36
41	Probing RNA-protein networks: biochemistry meets genomics. *Trends in Biochemical Sciences*, **2015**, 40, 157-64	10.3	35
40	Translational repression by PUF proteins in vitro. *Rna*, **2010**, 16, 1217-25	5.8	34
39	A single C. elegans PUF protein binds RNA in multiple modes. *Rna*, **2009**, 15, 1090-9	5.8	33
38	Identification of a conserved interface between PUF and CPEB proteins. *Journal of Biological Chemistry*, **2012**, 287, 18854-62	5.4	33
37	Divergence of Pumilio/fem-3 mRNA binding factor (PUF) protein specificity through variations in an RNA-binding pocket. *Journal of Biological Chemistry*, **2012**, 287, 6949-57	5.4	33

36	SYGL-1 and LST-1 link niche signaling to PUF RNA repression for stem cell maintenance in Caenorhabditis elegans. *PLoS Genetics*, **2017**, 13, e1007121	6	30
35	Autoregulation of GLD-2 cytoplasmic poly(A) polymerase. *Rna*, **2007**, 13, 188-99	5.8	28
34	Target selection by natural and redesigned PUF proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 15868-73	11.5	26
33	Unbiased screen of RNA tailing activities reveals a poly(UG) polymerase. *Nature Methods*, **2019**, 16, 437-445	25.6	25
32	A three-hybrid screen identifies mRNAs controlled by a regulatory protein. *Rna*, **2006**, 12, 1594-600	5.8	25
31	Chapter 14. Analysis of RNA-protein interactions using a yeast three-hybrid system. *Methods in Enzymology*, **2008**, 449, 295-315	1.7	22
30	Xenopus CAF1 requires NOT1-mediated interaction with 4E-T to repress translation in vivo. *Rna*, **2015**, 21, 1335-45	5.8	20
29	Context-dependent function of a conserved translational regulatory module. *Development (Cambridge)*, **2012**, 139, 1509-21	6.6	20
28	The nucleic acid-binding domain and translational repression activity of a Xenopus terminal uridylyl transferase. *Journal of Biological Chemistry*, **2013**, 288, 20723-33	5.4	20
27	Molecular biology. A tail tale for U. *Science*, **2008**, 319, 1344-5	33.3	20
26	Divergent RNA binding specificity of yeast Puf2p. *Rna*, **2011**, 17, 1479-88	5.8	19
25	A role for the poly(A)-binding protein Pab1p in PUF protein-mediated repression. *Journal of Biological Chemistry*, **2011**, 286, 33268-78	5.4	18
24	Recurrent rewiring and emergence of RNA regulatory networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E2816-E2825	11.5	17
23	Architecture and dynamics of overlapped RNA regulatory networks. *Rna*, **2017**, 23, 1636-1647	5.8	17
22	PGL germ granule assembly protein is a base-specific, single-stranded RNase. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1279-84	11.5	14
21	Molecular biology. Knives, accomplices, and RNA. *Science*, **2004**, 306, 1299-300	33.3	14
20	Regulated deadenylation in vitro. *Methods in Enzymology*, **2008**, 448, 77-106	1.7	13
19	Biochemical characterization of the Caenorhabditis elegans FBF.CPB-1 translational regulation complex identifies conserved protein interaction hotspots. *Journal of Molecular Biology*, **2013**, 425, 725-37	6.5	11

18	A protein.protein interaction platform involved in recruitment of GLD-3 to the FBF.fem-3 mRNA complex. *Journal of Molecular Biology*, **2013**, 425, 738-54	6.5	10
17	C. elegans germ granules require both assembly and localized regulators for mRNA repression. *Nature Communications*, **2021**, 12, 996	17.4	9
16	Toward Identifying Subnetworks from FBF Binding Landscapes in Spermatogenic or Oogenic Germlines. *G3: Genes, Genomes, Genetics*, **2019**, 9, 153-165	3.2	8
15	The molecular basis of LST-1 self-renewal activity and its control of stem cell pool size. *Development (Cambridge)*, **2019**, 146,	6.6	7
14	An RNA-Binding Multimer Specifies Nematode Sperm Fate. *Cell Reports*, **2018**, 23, 3769-3775	10.6	7
13	Determining the RNA specificity and targets of RNA-binding proteins using a three-hybrid system. *Methods in Enzymology*, **2014**, 539, 163-81	1.7	5
12	A PUF Hub Drives Self-Renewal in Germline Stem Cells. *Genetics*, **2020**, 214, 147-161	4	5
11	Distinct RNA-binding modules in a single PUF protein cooperate to determine RNA specificity. *Nucleic Acids Research*, **2019**, 47, 8770-8784	20.1	4
10	Records of RNA locations in living yeast revealed through covalent marks. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 23539-23547	11.5	4
9	RNA Tagging: Preparation of High-Throughput Sequencing Libraries. *Methods in Molecular Biology*, **2018**, 1649, 455-471	1.4	2
8	Identifying proteins that bind a known RNA sequence using the yeast three-hybrid system. *Methods in Enzymology*, **2014**, 539, 195-214	1.7	1
7	Dissecting a known RNA-protein interaction using a yeast three-hybrid system. *Methods in Enzymology*, **2014**, 539, 183-93	1.7	1
6	poly(UG)-tailed RNAs in Genome Protection and Epigenetic Inheritance		1
5	Unbiased screen of RNA tailing enzymes at single-nucleotide resolution reveals a poly(UG) polymerase required for genome integrity and RNA silencing		1
4	Records of RNA localization through covalent tagging		1
3	Expanding the binding specificity for RNA recognition by a PUF domain. *Nature Communications*, **2021**, 12, 5107	17.4	0
2	Lessons from the RNA World: humility and hubris. *Rna*, **2015**, 21, 482	5.8	
1	Reply to Hogan: Direct evidence of RNA-protein interactions and rewiring. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E10854-E10855	11.5	