Robert H Singer

List of Publications by Year
in descending order

258 papers	32,451 citations	3334 91 h-index	4885 168 g-index
287 all docs	287 docs citations	287 times ranked	23663 citing authors

#	Article	IF	Citations
1	Localization of ASH1 mRNA Particles in Living Yeast. Molecular Cell, 1998, 2, 437-445.	9.7	1,475
2	Visualization of Single RNA Transcripts in Situ. Science, 1998, 280, 585-590.	12.6	1,289
3	A general method to improve fluorophores for live-cell and single-molecule microscopy. Nature Methods, 2015, 12, 244-250.	19.0	1,236
4	Transcriptional Pulsing of a Developmental Gene. Current Biology, 2006, 16, 1018-1025.	3.9	694
5	From Silencing to Gene Expression. Cell, 2004, 116, 683-698.	28.9	658
6	Single-RNA counting reveals alternative modes of gene expression in yeast. Nature Structural and Molecular Biology, 2008, 15, 1263-1271.	8.2	642
7	In vivo dynamics of RNA polymerase II transcription. Nature Structural and Molecular Biology, 2007, 14, 796-806.	8.2	603
8	Spatial regulation of Î²-actin translation by Src-dependent phosphorylation of ZBP1. Nature, 2005, 438, 512-515.	27.8	569
9	Real-Time Observation of Transcription Initiation and Elongation on an Endogenous Yeast Gene. Science, 2011, 332, 475-478.	12.6	566
10	Single mRNA Molecules Demonstrate Probabilistic Movement in Living Mammalian Cells. Current Biology, 2003, 13, 161-167.	3.9	529
11	Fluorescence in situ hybridization: past, present and future. Journal of Cell Science, 2003, 116, 2833-2838.	2.0	493
12	Single-Cell Gene Expression Profiling. Science, 2002, 297, 836-840.	12.6	492
13	In the right place at the right time: visualizing and understanding mRNA localization. Nature Reviews Molecular Cell Biology, 2015, 16, 95-109.	37.0	486
14	Mating Type Switching in Yeast Controlled by Asymmetric Localization of ASH1 mRNA. Science, 1997, 277, 383-387.	12.6	478
15	Dynamics of Single mRNPs in Nuclei of Living Cells. Science, 2004, 304, 1797-1800.	12.6	476
16	Highly localized tracks of specific transcripts within interphase nuclei visualized by in situ hybridization. Cell, 1989, 57, 493-502.	28.9	452
17	A Direct Role for FMRP in Activity-Dependent Dendritic mRNA Transport Links Filopodial-Spine Morphogenesis to Fragile X Syndrome. Developmental Cell, 2008, 14, 926-939.	7.0	445
18	Sorting of Î²-Actin mRNA and Protein to Neurites and Growth Cones in Culture. Journal of Neuroscience, 1998, 18, 251-265.	3.6	435

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19	Translation dynamics of single mRNAs in live cells and neurons. Science, 2016, 352, 1430-1435.	12.6	412
20	Identification and Testing of a Gene Expression Signature of Invasive Carcinoma Cells within Primary Mammary Tumors. Cancer Research, 2004, 64, 8585-8594.	0.9	399
21	Quantitative analysis ofin situhybridization methods for the detection of actin gene expression. Nucleic Acids Research, 1985, 13, 1777-1799.	14.5	393
22	Messenger RNA in HeLa cells: Kinetics of formation and decay. Journal of Molecular Biology, 1973, 78, 321-334.	4.2	380
23	Short Dysfunctional Telomeres Impair Tumorigenesis in the INK4aÎ”2/3 Cancer-Prone Mouse. Cell, 1999, 97, 515-525.	28.9	365
24	Integrin binding and mechanical tension induce movement of mRNA and ribosomes to focal adhesions. Nature, 1998, 392, 730-733.	27.8	361
25	A transgenic mouse for in vivo detection of endogenous labeled mRNA. Nature Methods, 2011, 8, 165-170.	19.0	340
26	Single cell behavior in metastatic primary mammary tumors correlated with gene expression patterns revealed by molecular profiling. Cancer Research, 2002, 62, 6278-88.	0.9	331
27	THE GREAT ESCAPE: When Cancer Cells Hijack the Genes for Chemotaxis and Motility. Annual Review of Cell and Developmental Biology, 2005, 21, 695-718.	9.4	320
28	Visualization of Dynamics of Single Endogenous mRNA Labeled in Live Mouse. Science, 2014, 343, 422-424.	12.6	283
29	Single Î²-Actin mRNA Detection in Neurons Reveals a Mechanism for Regulating Its Translatability. Science, 2014, 343, 419-422.	12.6	276
30	Localization of pre-mRNA splicing in mammalian nuclei. Nature, 1994, 372, 809-812.	27.8	272
31	Activity-Dependent Trafficking and Dynamic Localization of Zipcode Binding Protein 1 and Î²-Actin mRNA in Dendrites and Spines of Hippocampal Neurons. Journal of Neuroscience, 2003, 23, 3251-3261.	3.6	269
32	Eukaryotic transcriptional dynamics: from single molecules to cell populations. Nature Reviews Genetics, 2013, 14, 572-584.	16.3	267
33	Single-molecule analysis of gene expression using two-color RNA labeling in live yeast. Nature Methods, 2013, 10, 119-121.	19.0	267
34	In vivo imaging of labelled endogenous Î²-actin mRNA during nucleocytoplasmic transport. Nature, 2010, 467, 604-607.	27.8	266
35	An improved MS2 system for accurate reporting of the mRNA life cycle. Nature Methods, 2018, 15, 81-89.	19.0	252
36	Active Transport of the Survival Motor Neuron Protein and the Role of Exon-7 in Cytoplasmic Localization. Journal of Neuroscience, 2003, 23, 6627-6637.	3.6	249

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37	CASFISH: CRISPR/Cas9-mediated in situ labeling of genomic loci in fixed cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11870-11875.	7.1	243
38	Gene expression and the myth of the average cell. Trends in Cell Biology, 2003, 13, 4-6.	7.9	242
39	Single-Molecule mRNA Decay Measurements Reveal Promoter- Regulated mRNA Stability in Yeast. Cell, 2011, 147, 1484-1497.	28.9	238
40	An RNA biosensor for imaging the first round of translation from single cells to living animals. Science, 2015, 347, 1367-1671.	12.6	238
41	Two ZBP1 KH domains facilitate Î²-actin mRNA localization, granule formation, and cytoskeletal attachment. Journal of Cell Biology, 2003, 160, 77-87.	5.2	233
42	Efficient Bayesian-based multiview deconvolution. Nature Methods, 2014, 11, 645-648.	19.0	232
43	How and why does Î²-actin mRNA target?. Biology of the Cell, 2005, 97, 97-110.	2.0	214
44	Structural basis for the coevolution of a viral RNAâ€“protein complex. Nature Structural and Molecular Biology, 2008, 15, 103-105.	8.2	211
45	Î²-Actin Messenger RNA Localization and Protein Synthesis Augment Cell Motility. Journal of Cell Biology, 1997, 136, 1263-1270.	5.2	206
46	The Survival of Motor Neuron (SMN) Protein Interacts with the mRNA-Binding Protein HuD and Regulates Localization of Poly(A) mRNA in Primary Motor Neuron Axons. Journal of Neuroscience, 2011, 31, 3914-3925.	3.6	197
47	Real-Time Visualization of ZBP1 Association with Î²-Actin mRNA during Transcription and Localization. Current Biology, 2003, 13, 199-207.	3.9	191
48	Dual inhibition of MDMX and MDM2 as a therapeutic strategy in leukemia. Science Translational Medicine, 2018, 10, .	12.4	187
49	Imaging Sites of N-WASP Activity in Lamellipodia and Invadopodia of Carcinoma Cells. Current Biology, 2004, 14, 697-703.	3.9	184
50	Movement of nuclear poly(A) RNA throughout the interchromatin space in living cells. Current Biology, 1999, 9, 285-291.	3.9	183
51	A single molecule view of gene expression. Trends in Cell Biology, 2009, 19, 630-637.	7.9	182
52	Localization of a Î²-Actin Messenger Ribonucleoprotein Complex with Zipcode-Binding Protein Modulates the Density of Dendritic Filopodia and Filopodial Synapses. Journal of Neuroscience, 2003, 23, 10433-10444.	3.6	178
53	Multiprotein Complexes of the Survival of Motor Neuron Protein SMN with Gemins Traffic to Neuronal Processes and Growth Cones of Motor Neurons. Journal of Neuroscience, 2006, 26, 8622-8632.	3.6	178
54	Fluorescence Fluctuation Spectroscopy Enables Quantitative Imaging of Single mRNAs in Living Cells. Biophysical Journal, 2012, 102, 2936-2944.	0.5	174

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55	Intracellular mRNA transport and localized translation. Nature Reviews Molecular Cell Biology, 2021, 22, 483-504.	37.0	169
56	ZBP1 regulates mRNA stability during cellular stress. Journal of Cell Biology, 2006, 175, 527-534.	5.2	163
57	The cytoskeleton and mRNA localization. Current Opinion in Cell Biology, 1992, 4, 15-19.	5.4	162
58	A predominantly nuclear protein affecting cytoplasmic localization of Î²-actin mRNA in fibroblasts and neurons. Journal of Cell Biology, 2002, 156, 41-52.	5.2	162
59	A new yeast PUF family protein, Puf6p, represses ASH1 mRNA translation and is required for its localization. Genes and Development, 2004, 18, 1452-1465.	5.9	162
60	Localization of all seven messenger RNAs for the actin-polymerization nucleator Arp2/3 complex in the protrusions of fibroblasts. Journal of Cell Science, 2005, 118, 2425-2433.	2.0	162
61	Nuclear export dynamics of RNAâ€“protein complexes. Nature, 2011, 475, 333-341.	27.8	162
62	Stepwise RNP assembly at the site of H/ACA RNA transcription in human cells. Journal of Cell Biology, 2006, 173, 207-218.	5.2	161
63	ZBP1 recognition of Î²-actin zipcode induces RNA looping. Genes and Development, 2010, 24, 148-158.	5.9	161
64	Glutamate-induced RNA localization and translation in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6877-E6886.	7.1	159
65	Rational Design of Fluorogenic and Spontaneously Blinking Labels for Super-Resolution Imaging. ACS Central Science, 2019, 5, 1602-1613.	11.3	159
66	Association of poly(A) mRNA with microtubules in cultured neurons. Neuron, 1994, 12, 571-582.	8.1	144
67	Inferring transient particle transport dynamics in live cells. Nature Methods, 2015, 12, 838-840.	19.0	143
68	RNA Processing and Export. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000752-a000752.	5.5	142
69	Colocalization of Different Influenza Viral RNA Segments in the Cytoplasm before Viral Budding as Shown by Single-molecule Sensitivity FISH Analysis. PLoS Pathogens, 2013, 9, e1003358.	4.7	142
70	The translation elongation factor eEF1A1 couples transcription to translation during heat shock response. ELife, 2014, 3, e03164.	6.0	140
71	RNA localization: different zipcodes, same postman?. Trends in Cell Biology, 1998, 8, 381-383.	7.9	133
72	Variegated gene expression caused by cell-specific long-range DNA interactions. Nature Cell Biology, 2011, 13, 944-951.	10.3	133

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73	Î²-Actin mRNA compartmentalization enhances focal adhesion stability and directs cell migration. Genes and Development, 2012, 26, 1885-1890.	5.9	131
74	Direct observation of frequency modulated transcription in single cells using light activation. ELife, 2013, 2, e00750.	6.0	131
75	Spatial arrangement of an RNA zipcode identifies mRNAs under post-transcriptional control. Genes and Development, 2012, 26, 43-53.	5.9	127
76	Compartmentalization of Eukaryotic Gene Expression: Causes and Effects. Cell, 1997, 91, 291-294.	28.9	125
77	Modern fluorescent proteins and imaging technologies to study gene expression, nuclear localization, and dynamics. Current Opinion in Cell Biology, 2011, 23, 310-317.	5.4	124
78	IGF2BP1 promotes cell migration by regulating MK5 and PTEN signaling. Genes and Development, 2012, 26, 176-189.	5.9	122
79	Asymmetric Sorting of Ash1p in Yeast Results from Inhibition of Translation by Localization Elements in the mRNA. Molecular Cell, 2002, 10, 1319-1330.	9.7	116
80	Temporal and spatial characterization of nonsense-mediated mRNA decay. Genes and Development, 2013, 27, 541-551.	5.9	116
81	Visualization of mRNA translation in living cells. Journal of Cell Biology, 2006, 175, 67-76.	5.2	112
82	Imaging Transcription in Living Cells. Annual Review of Biophysics, 2009, 38, 173-196.	10.0	112
83	The life of an mRNA in space and time. Journal of Cell Science, 2010, 123, 1761-1774.	2.0	112
84	Mapping translation 'hot-spots' in live cells by tracking single molecules of mRNA and ribosomes. ELife, 2016, 5, .	6.0	110
85	Nuclear microenvironments modulate transcription from low-affinity enhancers. ELife, 2017, 6, .	6.0	108
86	Raver1, a dual compartment protein, is a ligand for PTB/hnRNPI and microfilament attachment proteins. Journal of Cell Biology, 2001, 155, 775-786.	5.2	106
87	Imaging mRNA In Vivo, from Birth to Death. Annual Review of Biophysics, 2018, 47, 85-106.	10.0	106
88	Quantitative Digital Analysis of Diffuse and Concentrated Nuclear Distributions of Nascent Transcripts, SC35 and Poly(A). Experimental Cell Research, 1997, 231, 27-37.	2.6	105
89	Imaging gene expression in single living cells. Nature Reviews Molecular Cell Biology, 2004, 5, 855-862.	37.0	105
90	Single-mRNA counting using fluorescent in situ hybridization in budding yeast. Nature Protocols, 2012, 7, 408-419.	12.0	105

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91	ZBP2 Facilitates Binding of ZBP1 to Î²-Actin mRNA during Transcription. Molecular and Cellular Biology, 2007, 27, 8340-8351.	2.3	102
92	Transcription of functionally related constitutive genes is not coordinated. Nature Structural and Molecular Biology, 2011, 18, 27-34.	8.2	102
93	Single-Cell and Single-Molecule Analysis of Gene Expression Regulation. Annual Review of Genetics, 2016, 50, 267-291.	7.6	102
94	The PTB interacting protein raver1 regulates Â-tropomyosin alternative splicing. EMBO Journal, 2003, 22, 6356-6364.	7.8	97
95	RNA travel: Tracks from DNA to cytoplasm. Cell, 1993, 75, 399-401.	28.9	95
96	Pathways for mRNA localization in the cytoplasm. Trends in Biochemical Sciences, 2006, 31, 687-693.	7.5	93
97	A peptide motif in Raver1 mediates splicing repression by interaction with the PTB RRM2 domain. Nature Structural and Molecular Biology, 2006, 13, 839-848.	8.2	92
98	Translation of ASH1 mRNA is repressed by Puf6pâ€“Fun12p/eIF5B interaction and released by CK2 phosphorylation. Genes and Development, 2008, 22, 1037-1050.	5.9	92
99	The fate of the messenger is pre-determined: A new model for regulation of gene expression. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 643-653.	1.9	91
100	Imaging mRNA and protein interactions within neurons. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1875-E1884.	7.1	90
101	Metabolic cycling in single yeast cells from unsynchronized steady-state populations limited on glucose or phosphate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6946-6951.	7.1	89
102	Dynamics of survival of motor neuron (SMN) protein interaction with the mRNAâ€binding protein IMP1 facilitates its trafficking into motor neuron axons. Developmental Neurobiology, 2014, 74, 319-332.	3.0	89
103	Quantitative mRNA imaging throughout the entire Drosophila brain. Nature Methods, 2017, 14, 703-706.	19.0	89
104	RNA zipcodes for cytoplasmic addresses. Current Biology, 1993, 3, 719-721.	3.9	87
105	A Rho-dependent signaling pathway operating through myosin localizes Î²-actin mRNA in fibroblasts. Current Biology, 2001, 11, 1010-1016.	3.9	87
106	An Exclusively Nuclear RNA-Binding Protein Affects Asymmetric Localization of ASH1 mRNA and Ash1p in Yeast. Journal of Cell Biology, 2001, 153, 307-318.	5.2	87
107	Synonymous modification results in high-fidelity gene expression of repetitive protein and nucleotide sequences. Genes and Development, 2015, 29, 876-886.	5.9	87
108	Quantifying Protein-mRNA Interactions in Single Live Cells. Cell, 2015, 162, 211-220.	28.9	84

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109	Rrp17p Is a Eukaryotic Exonuclease Required for 5â€² End Processing of Pre-60S Ribosomal RNA. Molecular Cell, 2009, 36, 768-781.	9.7	83
110	YRA1 Autoregulation Requires Nuclear Export and Cytoplasmic Edc3p-Mediated Degradation of Its Pre-mRNA. Molecular Cell, 2007, 25, 559-573.	9.7	79
111	Neurotransmitter identity is acquired in a lineage-restricted manner in the Drosophila CNS. ELife, 2019, 8, .	6.0	78
112	RNP Localization and Transport in Yeast. Annual Review of Cell and Developmental Biology, 2001, 17, 297-310.	9.4	77
113	The nuclear connection in RNA transport and localization. Trends in Cell Biology, 2002, 12, 466-472.	7.9	77
114	Regulation of local expression of cell adhesion and motility-related mRNAs in breast cancer cells by IMP1/ZBP1. Journal of Cell Science, 2012, 125, 81-91.	2.0	77
115	Transcription goes digital. EMBO Reports, 2012, 13, 313-321.	4.5	75
116	Intercellular mRNA trafficking via membrane nanotube-like extensions in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9873-E9882.	7.1	75
117	Assembling an intermediate filament network by dynamic cotranslation. Journal of Cell Biology, 2006, 172, 747-758.	5.2	74
118	[13] Visualization of single molecules of mRNAin Situ. Methods in Enzymology, 2003, 361, 245-304.	1.0	70
119	Single-molecule insights into mRNA dynamics in neurons. Trends in Cell Biology, 2015, 25, 468-475.	7.9	70
120	RNA localization. Journal of Cell Science, 2005, 118, 4077-4081.	2.0	69
121	An Unbiased Analysis Method to Quantify mRNA Localization Reveals Its Correlation with Cell Motility. Cell Reports, 2012, 1, 179-184.	6.4	69
122	She2p Is a Novel RNA Binding Protein with a Basic Helical Hairpin Motif. Cell, 2004, 119, 491-502.	28.9	66
123	RNP transport in cell biology: the long and winding road. Current Opinion in Cell Biology, 2017, 45, 38-46.	5.4	66
124	The odyssey of a regulated transcript. Rna, 2000, 6, 1773-1780.	3.5	65
125	Single mRNA Tracking in Live Cells. Methods in Enzymology, 2010, 472, 387-406.	1.0	65
126	Mechanisms and cellular roles of local protein synthesis in mammalian cells. Current Opinion in Cell Biology, 2008, 20, 144-149.	5.4	64

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127	The travels of mRNAs in neurons: do they know where they are going?. Current Opinion in Neurobiology, 2019, 57, 110-116.	4.2	64
128	A transgenic mouse for imaging activity-dependent dynamics of endogenous Arc mRNA in live neurons. Science Advances, 2018, 4, eaar3448.	10.3	63
129	Imaging mRNA movement from transcription sites to translation sites. Seminars in Cell and Developmental Biology, 2007, 18, 202-208.	5.0	62
130	mRNA on the Move: The Road to Its Biological Destiny. Journal of Biological Chemistry, 2013, 288, 20361-20368.	3.4	62
131	Single-molecule imaging of transcription dynamics in somatic stem cells. Nature, 2020, 583, 431-436.	27.8	61
132	Blocking Î²-catenin binding to the ZBP1 promoter represses ZBP1 expression, leading to increased proliferation and migration of metastatic breast-cancer cells. Journal of Cell Science, 2009, 122, 1895-1905.	2.0	60
133	Specific interaction of KIF11 with ZBP1 regulates the transport of Î²-actin mRNA and cell motility. Journal of Cell Science, 2015, 128, 1001-10.	2.0	59
134	A DNA repair pathway can regulate transcriptional noise to promote cell fate transitions. Science, 2021, 373, .	12.6	58
135	Nuclear Pore Component Nup98 Is a Potential Tumor Suppressor and Regulates Posttranscriptional Expression of Select p53 Target Genes. Molecular Cell, 2012, 48, 799-810.	9.7	57
136	Analysis of receptor-ligand interactions using nitrocellulose gel transfer: Application to Torpedo acetylcholine receptor and alpha-bungarotoxin. Analytical Biochemistry, 1983, 130, 1-8.	2.4	54
137	Stable Morphology, but Dynamic Internal Reorganisation, of Interphase Human Chromosomes in Living Cells. PLoS ONE, 2010, 5, e11560.	2.5	54
138	Localizing DNA and RNA within nuclei and chromosomes by fluorescence in situ hybridization. Genetic Analysis, Techniques and Applications, 1991, 8, 41-58.	1.5	53
139	Feedback Regulation between Zipcode Binding Protein 1 and Î²-Catenin mRNAs in Breast Cancer Cells. Molecular and Cellular Biology, 2008, 28, 4963-4974.	2.3	53
140	Dynamic visualization of transcription and RNA subcellular localization in zebrafish. Development (Cambridge), 2015, 142, 1368-74.	2.5	53
141	Gene expression profiling in single cells within tissue. Nature Methods, 2005, 2, 663-665.	19.0	52
142	Characterization of hybridization between synthetic oligodeoxynuclotides and RNA in living cells. Nucleic Acids Research, 1995, 23, 4946-4953.	14.5	51
143	Temporal resolution and sequential expression of muscle-specific genes revealed by in situ hybridization. Developmental Biology, 1989, 133, 235-246.	2.0	50
144	IMP1 regulates UCA1-mediated cell invasion through facilitating UCA1 decay and decreasing the sponge effect of UCA1 for miR-122-5p. Breast Cancer Research, 2018, 20, 32.	5.0	49

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145	Nuclear accessibility of Î²-actin mRNA is measured by 3D single-molecule real-time tracking. Journal of Cell Biology, 2015, 209, 609-619.	5.2	48
146	Novel detection and differential utilization of a c-myc transcriptional block in colon cancer chemoprevention. Cancer Research, 2002, 62, 6006-10.	0.9	47
147	RNA asymmetric distribution and daughter/mother differentiation in yeast. Current Opinion in Microbiology, 2003, 6, 614-620.	5.1	46
148	ZBP1 enhances cell polarity and reduces chemotaxis. Journal of Cell Science, 2007, 120, 3173-3178.	2.0	46
149	Distribution of myosin heavy chain mRNA in embryonic muscle tissue visualized by ultrastructural in situ hybridization. Developmental Biology, 1991, 143, 58-67.	2.0	45
150	Dynamics of transcription and mRNA export. Current Opinion in Cell Biology, 2005, 17, 332-339.	5.4	45
151	Promotion of importin Î±â€“mediated nuclear import by the phosphorylation-dependent binding of cargo protein to 14-3-3. Journal of Cell Biology, 2005, 169, 415-424.	5.2	45
152	Analyzing mRNA Expression Using Single mRNA Resolution Fluorescent In Situ Hybridization. Methods in Enzymology, 2010, 470, 641-659.	1.0	45
153	Cotranscriptional effect of a premature termination codon revealed by live-cell imaging. Rna, 2011, 17, 2094-2107.	3.5	44
154	Imaging of DNA and RNA in Living Eukaryotic Cells to Reveal Spatiotemporal Dynamics of Gene Expression. Annual Review of Biochemistry, 2020, 89, 159-187.	11.1	43
155	Subnuclear positioning and interchromosomal clustering of theGAL1-10locus are controlled by separable, interdependent mechanisms. Molecular Biology of the Cell, 2016, 27, 2980-2993.	2.1	42
156	Asymmetric Distribution of Nuclear Pore Complexes and the Cytoplasmic Localization of Î²2-Tubulin mRNA in Chlamydomonas reinhardtii. Developmental Cell, 2003, 4, 941-952.	7.0	41
157	Cellular Levels of Signaling Factors Are Sensed by Î²-actin Alleles to Modulate Transcriptional Pulse Intensity. Cell Reports, 2015, 11, 419-432.	6.4	41
158	Imaging Transcription: Past, Present, and Future. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 1-8.	1.1	41
159	Developmental timing in Dictyostelium is regulated by the Set1 histone methyltransferase. Developmental Biology, 2006, 292, 519-532.	2.0	37
160	Terminal Minihelix, a Novel RNA Motif That Directs Polymerase III Transcripts to the Cell Cytoplasm. Journal of Biological Chemistry, 2001, 276, 25910-25918.	3.4	36
161	The structural basis for RNA selectivity by the IMP family of RNA-binding proteins. Nature Communications, 2019, 10, 4440.	12.8	36
162	Mitochondrial volume fraction and translation duration impact mitochondrial mRNA localization and protein synthesis. ELife, 2020, 9, .	6.0	36

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163	Human type II collagen gene (COL2A1) assigned to chromosome 12q13.1-q13.2 byin situ hybridization with biotinylated DNA probe. Japanese Journal of Human Genetics, 1989, 34, 307-311.	0.8	34
164	Imaging Translation in Single Cells Using Fluorescent Microscopy. Cold Spring Harbor Perspectives in Biology, 2012, 4, a012310-a012310.	5.5	33
165	Mapping Neurotransmitter Identity in the Whole-Mount Drosophila Brain Using Multiplex High-Throughput Fluorescence in Situ Hybridization. Genetics, 2019, 211, 473-482.	2.9	33
166	Cellular variability of nonsense-mediated mRNA decay. Nature Communications, 2021, 12, 7203.	12.8	33
167	A parafusin-related Toxoplasma protein in Ca2+-regulated secretory organelles. European Journal of Cell Biology, 2001, 80, 775-783.	3.6	32
168	Fluorescence Imaging Methods to Investigate Translation in Single Cells. Cold Spring Harbor Perspectives in Biology, 2019, 11, a032722.	5.5	32
169	Electron microscopic visualization of the filamentous reticulum in whole cultured presumptive chick myoblasts. American Journal of Anatomy, 1979, 156, 321-336.	1.0	31
170	Use of oligodeoxynucleotide probes for quantitative in situ hybridization to actin mRNA. Analytical Biochemistry, 1987, 166, 389-398.	2.4	31
171	An active precursor in assembly of yeast nuclear ribonuclease P. Rna, 2002, 8, 1348-1360.	3.5	30
172	Gene expression within a dynamic nuclear landscape. EMBO Journal, 2006, 25, 3469-3479.	7.8	30
173	IMP1 suppresses breast tumor growth and metastasis through the regulation of its target mRNAs. Oncotarget, 2016, 7, 15690-15702.	1.8	30
174	Detection and localization of actin mRNA isoforms in chicken muscle cells by in situ hybridization using biotinated oligonucleotide probes. Journal of Cellular Biochemistry, 1990, 44, 241-252.	2.6	29
175	QNQKE targeting motif for the SMN-Gemin multiprotein complexin neurons. Journal of Neuroscience Research, 2007, 85, 2657-2667.	2.9	29
176	Myo2p, a class V myosin in budding yeast, associates with a large ribonucleic acidâ€“protein complex that contains mRNAs and subunits of the RNA-processing body. Rna, 2008, 14, 491-502.	3.5	29
177	Presynaptic FMRP and local protein synthesis support structural and functional plasticity of glutamatergic axon terminals. Neuron, 2022, 110, 2588-2606.e6.	8.1	29
178	Role of the parafusin orthologue, PRP1, in microneme exocytosis and cell invasion inToxoplasma gondii. Cellular Microbiology, 2003, 5, 613-624.	2.1	27
179	Molecular restoration of archived transcriptional profiles by complementary-template reverse-transcription (CT-RT). Nucleic Acids Research, 2007, 35, e94-e94.	14.5	27
180	Dynamic association and localization of human H/ACA RNP proteins. Rna, 2006, 12, 2057-2062.	3.5	25

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181	A nucleoporin, Nup60p, affects the nuclear and cytoplasmic localization of ASH1 mRNA in S. cerevisiae. Rna, 2011, 17, 134-144.	3.5	25
182	Multiscale dynamics in nucleocytoplasmic transport. Current Opinion in Cell Biology, 2012, 24, 100-106.	5.4	25
183	Assembly and Molecular Architecture of the Phosphoinositide 3-Kinase p85Î± Homodimer. Journal of Biological Chemistry, 2015, 290, 30390-30405.	3.4	25
184	Calibrating excitation light fluxes for quantitative light microscopy in cell biology. Nature Protocols, 2008, 3, 1809-1814.	12.0	24
185	Single-molecule imaging of microRNA-mediated gene silencing in cells. Nature Communications, 2022, 13, 1435.	12.8	24
186	The cytoplasmic fate of an mRNP is determined cotranscriptionally: exception or rule?: Figure 1.. Genes and Development, 2010, 24, 1827-1831.	5.9	23
187	Single-mRNA detection in living S. cerevisiae using a re-engineered MS2 system. Nature Protocols, 2018, 13, 2268-2296.	12.0	23
188	Mamo decodes hierarchical temporal gradients into terminal neuronal fate. ELife, 2019, 8, .	6.0	23
189	Ca2+ binding, ATP-dependent Ca2+ transport, and total tissue Ca2+ in embryonic and adult avian dystrophic pectoralis. Journal of Membrane Biology, 1978, 44, 195-210.	2.1	22
190	Chapter 27 Cell Biology of mRNA Decay. Methods in Enzymology, 2008, 448, 553-577.	1.0	22
191	Stability of Polyadenylated RNA in Differentiating Myogenic Cells. FEBS Journal, 1978, 88, 395-402.	0.2	21
192	Butyrate and vitamin D₃ induce transcriptional attenuation at the cyclin D1 locus in colonic carcinoma cells. Journal of Cellular Physiology, 2009, 218, 638-642.	4.1	21
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