

Thomas Tuschl

List of Publications by Year in descending order

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194
papers

82,676
citations

1601

102
h-index

2314

193
g-index

208
all docs

208
docs citations

208
times ranked

63460
citing authors

#	ARTICLE	IF	CITATIONS
1	Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells. <i>Nature</i> , 2001, 411, 494-498.	36.3	8,711
2	Identification of Novel Genes Coding for Small Expressed RNAs. <i>Science</i> , 2001, 294, 853-858.	13.9	4,480
3	Silencing of microRNAs in vivo with "antagomirs". <i>Nature</i> , 2005, 438, 685-689.	36.3	3,743
4	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. <i>Cell</i> , 2007, 129, 1401-1414.	28.1	3,428
5	Human MicroRNA Targets. <i>PLoS Biology</i> , 2004, 2, e363.	4.8	3,311
6	Identification of Tissue-Specific MicroRNAs from Mouse. <i>Current Biology</i> , 2002, 12, 735-739.	4.0	3,085
7	Transcriptome-wide Identification of RNA-Binding Protein and MicroRNA Target Sites by PAR-CLIP. <i>Cell</i> , 2010, 141, 129-141.	28.1	2,645
8	Mechanisms of gene silencing by double-stranded RNA. <i>Nature</i> , 2004, 431, 343-349.	36.3	2,255
9	MicroRNA-21 contributes to myocardial disease by stimulating MAP kinase signalling in fibroblasts. <i>Nature</i> , 2008, 456, 980-984.	36.3	2,143
10	A pancreatic islet-specific microRNA regulates insulin secretion. <i>Nature</i> , 2004, 432, 226-230.	36.3	1,963
11	A census of human RNA-binding proteins. <i>Nature Reviews Genetics</i> , 2014, 15, 829-845.	16.7	1,765
12	Human Argonaute2 Mediates RNA Cleavage Targeted by miRNAs and siRNAs. <i>Molecular Cell</i> , 2004, 15, 185-197.	9.7	1,728
13	A uniform system for microRNA annotation. <i>Rna</i> , 2003, 9, 277-279.	3.6	1,646
14	A novel class of small RNAs bind to MILI protein in mouse testes. <i>Nature</i> , 2006, 442, 203-207.	36.3	1,332
15	Single-Stranded Antisense siRNAs Guide Target RNA Cleavage in RNAi. <i>Cell</i> , 2002, 110, 563-574.	28.1	1,320
16	Identification of microRNAs of the herpesvirus family. <i>Nature Methods</i> , 2005, 2, 269-276.	19.6	1,077
17	The Small RNA Profile during <i>Drosophila melanogaster</i> Development. <i>Developmental Cell</i> , 2003, 5, 337-350.	7.1	873
18	Cyclic [G(2',5'-ppA(3',5'-pp)] Is the Metazoan Second Messenger Produced by DNA-Activated Cyclic GMP-AMP Synthase. <i>Cell</i> , 2013, 153, 1094-1107.	28.1	842

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19	miRNAs in human cancer. <i>Journal of Pathology</i> , 2011, 223, 102-115.	4.5	835
20	siRNAs: applications in functional genomics and potential as therapeutics. <i>Nature Reviews Drug Discovery</i> , 2004, 3, 318-329.	56.6	821
21	New microRNAs from mouse and human. <i>Rna</i> , 2003, 9, 175-179.	3.6	782
22	The Human DiGeorge Syndrome Critical Region Gene 8 and Its D. melanogaster Homolog Are Required for miRNA Biogenesis. <i>Current Biology</i> , 2004, 14, 2162-2167.	4.0	766
23	Clustering and conservation patterns of human microRNAs. <i>Nucleic Acids Research</i> , 2005, 33, 2697-2706.	14.2	730
24	Recognition of 5' Triphosphate by RIG-I Helicase Requires Short Blunt Double-Stranded RNA as Contained in Panhandle of Negative-Strand Virus. <i>Immunity</i> , 2009, 31, 25-34.	14.1	678
25	FMRP targets distinct mRNA sequence elements to regulate protein expression. <i>Nature</i> , 2012, 492, 382-386.	36.3	670
26	MicroRNAs in Human Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2013, 774, 1-20.	9.0	616
27	Integrative Regulatory Mapping Indicates that the RNA-Binding Protein HuR Couples Pre-mRNA Processing and mRNA Stability. <i>Molecular Cell</i> , 2011, 43, 327-339.	9.7	611
28	Structural basis for 5'-end-specific recognition of guide RNA by the A. fulgidus Piwi protein. <i>Nature</i> , 2005, 434, 666-670.	36.3	604
29	Cucumber mosaic virus-encoded 2b suppressor inhibits Arabidopsis Argonaute1 cleavage activity to counter plant defense. <i>Genes and Development</i> , 2006, 20, 3255-3268.	6.0	595
30	Sequence-specific inhibition of microRNA- and siRNA-induced RNA silencing. <i>Rna</i> , 2004, 10, 544-550.	3.6	540
31	Structure of an argonaute silencing complex with a seed-containing guide DNA and target RNA duplex. <i>Nature</i> , 2008, 456, 921-926.	36.3	516
32	Cellular cofactors affecting hepatitis C virus infection and replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12884-12889.	7.6	513
33	Structure-Function Analysis of STING Activation by c[G(2'5'pA(3'5'p)] and Targeting by Antiviral DMXAA. <i>Cell</i> , 2013, 154, 748-762.	28.1	498
34	Identification of Novel Argonaute-Associated Proteins. <i>Current Biology</i> , 2005, 15, 2149-2155.	4.0	494
35	Nucleation, propagation and cleavage of target RNAs in Ago silencing complexes. <i>Nature</i> , 2009, 461, 754-761.	36.3	491
36	A Role for Neuronal piRNAs in the Epigenetic Control of Memory-Related Synaptic Plasticity. <i>Cell</i> , 2012, 149, 693-707.	28.1	490

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37	Structure of the guide-strand-containing argonaute silencing complex. <i>Nature</i> , 2008, 456, 209-213.	36.3	487
38	Quantitative technologies establish a novel microRNA profile of chronic lymphocytic leukemia. <i>Blood</i> , 2007, 109, 4944-4951.	1.4	475
39	The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis in vivo. <i>Genes and Development</i> , 2009, 23, 1327-1337.	6.0	469
40	Specificity, duplex degradation and subcellular localization of antagomirs. <i>Nucleic Acids Research</i> , 2007, 35, 2885-2892.	14.2	435
41	Sequence, Chemical, and Structural Variation of Small Interfering RNAs and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing. <i>Oligonucleotides</i> , 2003, 13, 83-105.	4.7	422
42	MicroRNA-155 Is a Negative Regulator of Activation-Induced Cytidine Deaminase. <i>Immunity</i> , 2008, 28, 621-629.	14.1	415
43	Expanding small RNA interference. <i>Nature Biotechnology</i> , 2002, 20, 446-448.	21.0	391
44	Characterization of Small RNAs in Aplysia Reveals a Role for miR-124 in Constraining Synaptic Plasticity through CREB. <i>Neuron</i> , 2009, 63, 803-817.	8.1	381
45	The growing catalog of small RNAs and their association with distinct Argonaute/Piwi family members. <i>Development (Cambridge)</i> , 2008, 135, 1201-1214.	2.6	374
46	MicroRNA-24 Regulates Vascularity After Myocardial Infarction. <i>Circulation</i> , 2011, 124, 720-730.	5.0	364
47	Crystal Structure of A. aeolicus Argonaute, a Site-Specific DNA-Guided Endoribonuclease, Provides Insights into RISC-Mediated mRNA Cleavage. <i>Molecular Cell</i> , 2005, 19, 405-419.	9.7	352
48	RISC is a 5' phosphomonoester-producing RNA endonuclease. <i>Genes and Development</i> , 2004, 18, 975-980.	6.0	342
49	MicroRNA Sequence and Expression Analysis in Breast Tumors by Deep Sequencing. <i>Cancer Research</i> , 2011, 71, 4443-4453.	0.9	334
50	Molecular characterization of human Argonaute-containing ribonucleoprotein complexes and their bound target mRNAs. <i>Rna</i> , 2008, 14, 2580-2596.	3.6	332
51	RNA targets of wild-type and mutant FET family proteins. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1428-1431.	8.1	328
52	The Viral and Cellular MicroRNA Targetome in Lymphoblastoid Cell Lines. <i>PLoS Pathogens</i> , 2012, 8, e1002484.	3.9	326
53	Comprehensive profiling of circulating microRNA via small RNA sequencing of cDNA libraries reveals biomarker potential and limitations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4255-4260.	7.6	320
54	Single-cell transcriptome analysis of human skin identifies novel fibroblast subpopulation and enrichment of immune subsets in atopic dermatitis. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 1615-1628.	2.9	315

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55	RNA-ligase-dependent biases in miRNA representation in deep-sequenced small RNA cDNA libraries. <i>Rna</i> , 2011, 17, 1697-1712.	3.6	309
56	A single-cell survey of the human first-trimester placenta and decidua. <i>Science Advances</i> , 2018, 4, eaau4788.	10.9	309
57	Tubular cell and keratinocyte single-cell transcriptomics applied to lupus nephritis reveal type I IFN and fibrosis relevant pathways. <i>Nature Immunology</i> , 2019, 20, 915-927.	13.9	305
58	Viral MicroRNA Targetome of KSHV-Infected Primary Effusion Lymphoma Cell Lines. <i>Cell Host and Microbe</i> , 2011, 10, 515-526.	11.1	301
59	miRNA in situ hybridization in formaldehyde and EDC-fixed tissues. <i>Nature Methods</i> , 2009, 6, 139-141.	19.6	284
60	RNA Interference and Small Interfering RNAs. <i>ChemBioChem</i> , 2001, 2, 239-245.	2.8	275
61	On the art of identifying effective and specific siRNAs. <i>Nature Methods</i> , 2006, 3, 670-676.	19.6	273
62	The muscle-specific microRNA miR-206 blocks human rhabdomyosarcoma growth in xenotransplanted mice by promoting myogenic differentiation. <i>Journal of Clinical Investigation</i> , 2009, 119, 2366-78.	6.7	245
63	Elevated Expression of the miR-17-92 Polycistron and miR-21 in Hepadnavirus-Associated Hepatocellular Carcinoma Contributes to the Malignant Phenotype. <i>American Journal of Pathology</i> , 2008, 173, 856-864.	4.2	240
64	FOXO1 is an essential regulator of pluripotency in human embryonic stem cells. <i>Nature Cell Biology</i> , 2011, 13, 1092-1099.	10.1	239
65	Structural and functional insights into 5'-ppp RNA pattern recognition by the innate immune receptor RIG-I. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 781-787.	8.1	233
66	PAR-Clip - A Method to Identify Transcriptome-wide the Binding Sites of RNA Binding Proteins. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	225
67	DGCR8-dependent microRNA biogenesis is essential for skin development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 498-502.	7.6	219
68	Identification and characterization of small RNAs involved in RNA silencing. <i>FEBS Letters</i> , 2005, 579, 5830-5840.	2.8	216
69	Comparative RNA-sequencing analysis of myocardial and circulating small RNAs in human heart failure and their utility as biomarkers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11151-11156.	7.6	214
70	Human CLP1 Mutations Alter tRNA Biogenesis, Affecting Both Peripheral and Central Nervous System Function. <i>Cell</i> , 2014, 157, 636-650.	28.1	192
71	The E3 ubiquitin ligase and RNA-binding protein ZNF598 orchestrates ribosome quality control of premature polyadenylated mRNAs. <i>Nature Communications</i> , 2017, 8, 16056.	13.2	188
72	Repeat-associated siRNAs cause chromatin silencing of retrotransposons in the <i>Drosophila melanogaster</i> germline. <i>Nucleic Acids Research</i> , 2007, 35, 5430-5438.	14.2	182

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73	Dysregulation of microRNA-219 promotes neurodegeneration through post-transcriptional regulation of tau. <i>Journal of Clinical Investigation</i> , 2015, 125, 681-686.	6.7	179
74	Characterizing Expression and Processing of Precursor and Mature Human tRNAs by Hydro-tRNAseq and PAR-CLIP. <i>Cell Reports</i> , 2017, 20, 1463-1475.	6.4	178
75	Strand-specific 5'-O-methylation of siRNA duplexes controls guide strand selection and targeting specificity. <i>Rna</i> , 2008, 14, 263-274.	3.6	177
76	Absolute quantification of microRNAs by using a universal reference. <i>Rna</i> , 2009, 15, 2375-2384.	3.6	176
77	Genome-wide identification of microRNA targets in human ES cells reveals a role for miR-302 in modulating BMP response. <i>Genes and Development</i> , 2011, 25, 2173-2186.	6.0	176
78	Single cell RNA sequencing to dissect the molecular heterogeneity in lupus nephritis. <i>Journal of Clinical Investigation</i> , 2017, 2, .	6.7	174
79	microRNAs are biomarkers of oncogenic human papillomavirus infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4262-4267.	7.6	170
80	Small Interfering RNAs: A Revolutionary Tool for the Analysis of Gene Function and Gene Therapy. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2002, 2, 158-167.	3.3	167
81	PAR-CLIP analysis uncovers AUF1 impact on target RNA fate and genome integrity. <i>Nature Communications</i> , 2014, 5, 5248.	13.2	166
82	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. <i>Cell</i> , 2019, 177, 231-242.	28.1	165
83	Identification of mRNAs bound and regulated by human LIN28 proteins and molecular requirements for RNA recognition. <i>Rna</i> , 2013, 19, 613-626.	3.6	162
84	Identification of Protein Complexes by Comparative Analysis of Yeast and Bacterial Protein Interaction Data. <i>Journal of Computational Biology</i> , 2005, 12, 835-846.	1.7	161
85	A selective microRNA-based strategy inhibits restenosis while preserving endothelial function. <i>Journal of Clinical Investigation</i> , 2014, 124, 4102-4114.	6.7	160
86	Development of human cGAS-specific small-molecule inhibitors for repression of dsDNA-triggered interferon expression. <i>Nature Communications</i> , 2019, 10, 2261.	13.2	155
87	MicroRNA-Mediated Down-Regulation of PRDM1/Blimp-1 in Hodgkin/Reed-Sternberg Cells: A Potential Pathogenetic Lesion in Hodgkin Lymphomas. <i>American Journal of Pathology</i> , 2008, 173, 242-252.	4.2	154
88	Single-Cell RNA Profiling of Glomerular Cells Shows Dynamic Changes in Experimental Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 533-545.	0.5	151
89	Novel MIR143-NOTCH fusions in benign and malignant glomus tumors. <i>Genes Chromosomes and Cancer</i> , 2013, 52, 1075-1087.	3.4	146
90	Human cGAS catalytic domain has an additional DNA-binding interface that enhances enzymatic activity and liquid-phase condensation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11946-11955.	7.6	142

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91	The human 18S U11/U12 snRNP contains a set of novel proteins not found in the U2-dependent spliceosome. <i>Rna</i> , 2004, 10, 929-941.	3.6	141
92	MicroRNA-21 in Glomerular Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 805-816.	0.5	135
93	Oligonucleotide duplexes containing 2'-amino-2'-deoxycytidines: thermal stability and chemical reactivity. <i>Nucleic Acids Research</i> , 1994, 22, 20-24.	14.2	134
94	Differential regulation of mature and precursor microRNA expression by NMDA and metabotropic glutamate receptor activation during LTP in the adult dentate gyrus <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2010, 31, 636-645.	3.6	130
95	Human plasma and serum extracellular small RNA reference profiles and their clinical utility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5334-E5343.	7.6	128
96	DND1 maintains germline stem cells via recruitment of the CCR4-NOT complex to target mRNAs. <i>Nature</i> , 2017, 543, 568-572.	36.3	118
97	Deep sequencing of small RNAs specifically associated with Arabidopsis AGO1 and AGO4 uncovers new AGO functions. <i>Plant Journal</i> , 2011, 67, 292-304.	5.9	115
98	MicroRNAs MiR-17, MiR-20a, and MiR-106b Act in Concert to Modulate E2F Activity on Cell Cycle Arrest during Neuronal Lineage Differentiation of USSC. <i>PLoS ONE</i> , 2011, 6, e16138.	2.4	114
99	Barcoded cDNA library preparation for small RNA profiling by next-generation sequencing. <i>Methods</i> , 2012, 58, 164-170.	3.9	114
100	In vivo, Argonaute-bound microRNAs exist predominantly in a reservoir of low molecular weight complexes not associated with mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 767-772.	7.6	112
101	Global analysis of positive and negative pre-mRNA splicing regulators in <i>Drosophila</i> . <i>Genes and Development</i> , 2005, 19, 1306-1314.	6.0	110
102	miR-375 gene dosage in pancreatic β -cells: implications for regulation of β -cell mass and biomarker development. <i>Journal of Molecular Medicine</i> , 2015, 93, 1159-1169.	4.0	109
103	Small RNA Sequencing and Functional Characterization Reveals MicroRNA-143 Tumor Suppressor Activity in Liposarcoma. <i>Cancer Research</i> , 2011, 71, 5659-5669.	0.9	106
104	Kruppel-like Factor 15 Is a Critical Regulator of Cardiac Lipid Metabolism. <i>Journal of Biological Chemistry</i> , 2014, 289, 5914-5924.	3.5	106
105	Discovery and Characterization of piRNAs in the Human Fetal Ovary. <i>Cell Reports</i> , 2015, 13, 854-863.	6.4	101
106	Structure-function studies of STAR family Quaking proteins bound to their in vivo RNA target sites. <i>Genes and Development</i> , 2013, 27, 928-940.	6.0	100
107	The TIA1 RNA-Binding Protein Family Regulates EIF2AK2-Mediated Stress Response and Cell Cycle Progression. <i>Molecular Cell</i> , 2018, 69, 622-635.e6.	9.7	98
108	Binding-Pocket and Lid-Region Substitutions Render Human STING Sensitive to the Species-Specific Drug DMXAA. <i>Cell Reports</i> , 2014, 8, 1668-1676.	6.4	93

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109	PAR-CLIP (Photoactivatable Ribonucleoside-Enhanced Crosslinking and Immunoprecipitation). <i>Methods in Enzymology</i> , 2014, 539, 113-161.	1.7	93
110	MicroRNA Sequence Profiles of Human Kidney Allografts With or Without Tubulointerstitial Fibrosis. <i>Transplantation</i> , 2012, 94, 1086-1094.	1.1	90
111	Biochemical isolation of Argonaute protein complexes by Ago-APP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11841-11845.	7.6	89
112	Cell atlas of the foetal human heart and implications for autoimmune-mediated congenital heart block. <i>Cardiovascular Research</i> , 2020, 116, 1446-1457.	3.8	88
113	The G3BP1-Family-USP10 Deubiquitinase Complex Rescues Ubiquitinated 40S Subunits of Ribosomes Stalled in Translation from Lysosomal Degradation. <i>Molecular Cell</i> , 2020, 77, 1193-1205.e5.	9.7	88
114	Urine MicroRNA as Potential Biomarkers of Autosomal Dominant Polycystic Kidney Disease Progression: Description of miRNA Profiles at Baseline. <i>PLoS ONE</i> , 2014, 9, e86856.	2.4	86
115	Magnetodielectric consequences of phase separation in the colossal magnetoresistance manganite $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. <i>Physical Review B</i> , 2005, 72, .	3.3	81
116	Multicolor microRNA FISH effectively differentiates tumor types. <i>Journal of Clinical Investigation</i> , 2013, 123, 2694-2702.	6.7	80
117	Combined Characterization of microRNA and mRNA Profiles Delineates Early Differentiation Pathways of CD133+ and CD34+ Hematopoietic Stem and Progenitor Cells. <i>Stem Cells</i> , 2011, 29, 847-857.	3.6	77
118	<i>In vitro</i> antiviral activity of the anti-HCV drugs daclatasvir and sofosbuvir against SARS-CoV-2, the aetiological agent of COVID-19. <i>Journal of Antimicrobial Chemotherapy</i> , 2021, 76, 1874-1885.	3.2	77
119	Activity of hammerhead ribozymes containing nonnucleotidic linkers. <i>Nucleic Acids Research</i> , 1993, 21, 5600-5603.	14.2	76
120	RNA sets the standard. <i>Nature</i> , 2003, 421, 220-221.	36.3	67
121	Identification of distinct miRNA target regulation between breast cancer molecular subtypes using AGO2-PAR-CLIP and patient datasets. <i>Genome Biology</i> , 2014, 15, R9.	9.1	66
122	Identification of the RNA recognition element of the RBPMS family of RNA-binding proteins and their transcriptome-wide mRNA targets. <i>Rna</i> , 2014, 20, 1090-1102.	3.6	65
123	Co-repressor CBFA2T2 regulates pluripotency and germline development. <i>Nature</i> , 2016, 534, 387-390.	36.3	63
124	Comprehensive aptamer-based screening identifies a spectrum of urinary biomarkers of lupus nephritis across ethnicities. <i>Nature Communications</i> , 2020, 11, 2197.	13.2	62
125	Multimeric assembly and biochemical characterization of the Traxin translin endonuclease complex. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 658-664.	8.1	60
126	A <i>Drosophila pasha</i> Mutant Distinguishes the Canonical MicroRNA and Mirtron Pathways. <i>Molecular and Cellular Biology</i> , 2009, 29, 861-870.	2.5	59

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127	Deciphering human ribonucleoprotein regulatory networks. <i>Nucleic Acids Research</i> , 2019, 47, 570-581.	14.2	59
128	Bioinformatic analysis of barcoded cDNA libraries for small RNA profiling by next-generation sequencing. <i>Methods</i> , 2012, 58, 171-187.	3.9	56
129	A comprehensive analysis of the effects of the deaminase AID on the transcriptome and methylome of activated B cells. <i>Nature Immunology</i> , 2013, 14, 749-755.	13.9	55
130	ELAVL1 Modulates Transcriptome-wide miRNA Binding in Murine Macrophages. <i>Cell Reports</i> , 2014, 9, 2330-2343.	6.4	54
131	miR-193b Regulated Signaling Networks Serve as Tumor Suppressors in Liposarcoma and Promote Adipogenesis in Adipose-Derived Stem Cells. <i>Cancer Research</i> , 2017, 77, 5728-5740.	0.9	51
132	Optimization of PAR-CLIP for transcriptome-wide identification of binding sites of RNA-binding proteins. <i>Methods</i> , 2017, 118-119, 24-40.	3.9	50
133	Multi-disciplinary methods to define RNA-protein interactions and regulatory networks. <i>Current Opinion in Genetics and Development</i> , 2013, 23, 20-28.	3.4	49
134	Cell and Microvesicle Urine microRNA Deep Sequencing Profiles from Healthy Individuals: Observations with Potential Impact on Biomarker Studies. <i>PLoS ONE</i> , 2016, 11, e0147249.	2.4	47
135	Combination of antiviral drugs inhibits SARS-CoV-2 polymerase and exonuclease and demonstrates COVID-19 therapeutic potential in viral cell culture. <i>Communications Biology</i> , 2022, 5, 154.	4.5	46
136	A Potential Protein-RNA Recognition Event along the RISC-Loading Pathway from the Structure of <i>A. aeolicus</i> Argonaute with Externally Bound siRNA. <i>Structure</i> , 2006, 14, 1557-1565.	3.4	45
137	Quantitative mass spectrometry and PAR-CLIP to identify RNA-protein interactions. <i>Nucleic Acids Research</i> , 2012, 40, 9897-9902.	14.2	45
138	AUF1 promotes let-7b loading on Argonaute 2. <i>Genes and Development</i> , 2015, 29, 1599-1604.	6.0	44
139	Evaluating gastroenteropancreatic neuroendocrine tumors through microRNA sequencing. <i>Endocrine-Related Cancer</i> , 2019, 26, 47-57.	3.4	44
140	Convergence of mammalian RQC and C-end rule proteolytic pathways via alanine tailing. <i>Molecular Cell</i> , 2021, 81, 2112-2122.e7.	9.7	44
141	Chromosome 19 microRNA cluster enhances cell reprogramming by inhibiting epithelial-to-mesenchymal transition. <i>Scientific Reports</i> , 2020, 10, 3029.	3.5	43
142	Structural basis underlying CAC RNA recognition by the RRM domain of dimeric RNA-binding protein RBPMS. <i>Quarterly Reviews of Biophysics</i> , 2016, 49, e1.	5.5	42
143	Reprogramming of the MicroRNA Transcriptome Mediates Resistance to Rapamycin. <i>Journal of Biological Chemistry</i> , 2013, 288, 6034-6044.	3.5	41
144	Specific RNAi Mediated Gene Knockdown in Zebrafish Cell Lines. <i>RNA Biology</i> , 2005, 2, 101-105.	3.3	39

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145	A genome-wide view of the expression and processing patterns of <i>Thermus thermophilus</i> HB8 CRISPR RNAs. <i>Rna</i> , 2012, 18, 783-794.	3.6	36
146	Mammalian miRNA curation through next-generation sequencing. <i>Frontiers in Genetics</i> , 2013, 4, 145.	2.4	36
147	The RNA-Binding Protein AICF Regulates Hepatic Fructose and Glycerol Metabolism via Alternative RNA Splicing. <i>Cell Reports</i> , 2019, 29, 283-300.e8.	6.4	36
148	The RNA-binding protein vigilin regulates VLDL secretion through modulation of Apob mRNA translation. <i>Nature Communications</i> , 2016, 7, 12848.	13.2	35
149	RTEL1 influences the abundance and localization of TERRA RNA. <i>Nature Communications</i> , 2021, 12, 3016.	13.2	34
150	Deep Sequencing Reveals a Novel miR-22 Regulatory Network with Therapeutic Potential in Rhabdomyosarcoma. <i>Cancer Research</i> , 2016, 76, 6095-6106.	0.9	33
151	The E3 ubiquitin ligase RNF10 modifies 40S ribosomal subunits of ribosomes compromised in translation. <i>Cell Reports</i> , 2021, 36, 109468.	6.4	33
152	Structure/cleavage-based insights into helical perturbations at bulge sites within <i>T. thermophilus</i> Argonaute silencing complexes. <i>Nucleic Acids Research</i> , 2017, 45, 9149-9163.	14.2	31
153	Simultaneous detection of the subcellular localization of RNAs and proteins in cultured cells by combined multicolor RNA-FISH and IF. <i>Methods</i> , 2017, 118-119, 101-110.	3.9	29
154	Inducible and reversible inhibition of miRNA-mediated gene repression in vivo. <i>ELife</i> , 2021, 10, .	5.9	27
155	Assembly defects of human tRNA splicing endonuclease contribute to impaired pre-tRNA processing in pontocerebellar hypoplasia. <i>Nature Communications</i> , 2021, 12, 5610.	13.2	26
156	MicroRNA-206 suppresses TGF- β^2 signalling to limit tumor growth and metastasis in lung adenocarcinoma. <i>Cellular Signalling</i> , 2018, 50, 25-36.	3.7	25
157	Rapid Creation of Stable Mammalian Cell Lines for Regulated Expression of Proteins Using the Gateway [®] Recombination Cloning Technology and Flp-In T-REx [®] Lines. <i>Methods in Enzymology</i> , 2013, 529, 99-124.	1.7	24
158	Gene Silencing with siRNA Duplexes Composed of Target-mRNA-Complementary and Partially Palindromic or Partially Complementary Single-Stranded siRNAs. <i>RNA Biology</i> , 2006, 3, 82-89.	3.3	23
159	Deep MicroRNA sequencing reveals downregulation of miR-29a in neuroblastoma central nervous system metastasis. <i>Genes Chromosomes and Cancer</i> , 2014, 53, 803-814.	3.4	21
160	Modulation of LIN28B/Let-7 Signaling by Propranolol Contributes to Infantile Hemangioma Involution. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1321-1332.	3.9	20
161	miR-193b regulates tumorigenesis in liposarcoma cells via PDGFR, TGF β^2 , and Wnt signaling. <i>Scientific Reports</i> , 2019, 9, 3197.	3.5	20
162	Non-reversible tissue fixation retains extracellular vesicles for in situ imaging. <i>Nature Methods</i> , 2019, 16, 1269-1273.	19.6	19

#	ARTICLE	IF	CITATIONS
163	Efficient Differentiation of Steroidogenic and Germ-Like Cells from Epigenetically-Related iPSCs Derived from Ovarian Granulosa Cells. PLoS ONE, 2015, 10, e0119275.	2.4	19
164	New insights in the mechanism of microRNA-mediated target repression. Nature Structural and Molecular Biology, 2011, 18, 1181-1182.	8.1	18
165	Unique microRNA appear at different times during the course of a delayed-type hypersensitivity reaction in human skin. Experimental Dermatology, 2015, 24, 953-957.	3.0	18
166	PAR-CLIP for Discovering Target Sites of RNA-Binding Proteins. Methods in Molecular Biology, 2018, 1720, 55-75.	1.4	17
167	A ribozyme selected from variants of U6 snRNA promotes 2 ⁵ ,5 ⁴ -branch formation. Rna, 2001, 7, 29-43.	3.6	16
168	The Conserved RNA Exonuclease Rexo5 Is Required for 3 ⁵ End Maturation of 28S rRNA, 5S rRNA, and snoRNAs. Cell Reports, 2017, 21, 758-772.	6.4	16
169	Multiplexed miRNA Fluorescence In Situ Hybridization for Formalin-Fixed Paraffin-Embedded Tissues. Methods in Molecular Biology, 2014, 1211, 171-187.	1.4	14
170	Viral DNA Replication Orientation and hnRNPs Regulate Transcription of the Human Papillomavirus 18 Late Promoter. MBio, 2017, 8, .	4.3	12
171	Characterizing and classifying neuroendocrine neoplasms through microRNA sequencing and data mining. NAR Cancer, 2020, 2, zcaa009.	3.0	12
172	Dynamic genome-wide gene expression and immune cell composition in the developing human placenta. Journal of Reproductive Immunology, 2022, 151, 103624.	2.0	12
173	Classifying Lung Neuroendocrine Neoplasms through MicroRNA Sequence Data Mining. Cancers, 2020, 12, 2653.	3.9	11
174	Serum MicroRNA Transcriptomics and Acute Rejection or Recurrent Hepatitis C Virus in Human Liver Allograft Recipients: A Pilot Study. Transplantation, 2022, 106, 806-820.	1.1	9
175	RNA interference by osmotic lysis of pinosomes: liposome-independent transfection of siRNAs into mammalian cells. BioTechniques, 2004, 37, 96-102.	1.8	8
176	Statistical Assessment of Depth Normalization for Small RNA Sequencing. JCO Clinical Cancer Informatics, 2020, 4, 567-582.	2.3	8
177	Longitudinal profiling of circulating miRNA during cardiac allograft rejection: a proof-of-concept study. ESC Heart Failure, 2021, 8, 1840-1849.	3.2	8
178	Expanding the binding specificity for RNA recognition by a PUF domain. Nature Communications, 2021, 12, 5107.	13.2	8
179	Single-cell RNA sequencing for the study of lupus nephritis. Lupus Science and Medicine, 2019, 6, e000329.	2.9	6
180	Nucleolin Controls Ribosome Biogenesis through Its RNA-Binding Properties. Blood, 2016, 128, 5056-5056.	1.4	6

#	ARTICLE	IF	CITATIONS
181	Sequential development of several RT-qPCR tests using LNA nucleotides and dual probe technology to differentiate SARS-CoV-2 from influenza A and B. <i>Microbial Biotechnology</i> , 2022, 15, 1995-2021.	4.3	6
182	Empirical insights into the stochasticity of small RNA sequencing. <i>Scientific Reports</i> , 2016, 6, 24061.	3.5	5
183	MicroRNA-Mediated Translation Repression of PRDM1 in Hodgkin/Reed-Sternberg Cells - A Potential Pathogenetic Lesion in Hodgkin Lymphoma.. <i>Blood</i> , 2006, 108, 614-614.	1.4	4
184	In vivo PAR-CLIP (viP-CLIP) of liver TIAL1 unveils targets regulating cholesterol synthesis and secretion. <i>Nature Communications</i> , 2023, 14, .	13.2	4
185	Plasma microRNA Interindividual Variability in Healthy Individuals, Pregnant Women, and an Individual with a Stably Altered Neuroendocrine Phenotype. <i>Clinical Chemistry</i> , 2021, 67, 1676-1688.	3.5	3
186	Transcriptome-Wide Identification of Protein Binding Sites on RNA by PAR-CLIP (Photoactivatable Ribonucleoside-Enhanced Crosslinking and Immunoprecipitation). , 2014, , 877-898.		1
187	Discriminating Neoplastic from Nonneoplastic Tissues Using an miRNA-Based Deep Cancer Classifier. <i>American Journal of Pathology</i> , 2021, , .	4.2	1
188	Barcoded cDNA Libraries for miRNA Profiling by Next-Generation Sequencing. , 2014, , 861-876.		0
189	miRNA Profiling of Pediatric ALL and Non-Hodgkin Lymphomas.. <i>Blood</i> , 2005, 106, 2719-2719.	1.4	0
190	Ubiquitously Expressed Micro RNA miR-16 Is Not Mutated and Not Differentially Expressed in Patients with B-CLL.. <i>Blood</i> , 2006, 108, 496-496.	1.4	0
191	Mechanisms of small RNA mediated mammalian gene silencing. <i>FASEB Journal</i> , 2007, 21, A149.	0.5	0
192	Transcriptome-Wide Identification of the mRNA target sites of the Fragile X Mental Retardation Proteins. <i>FASEB Journal</i> , 2009, 23, 666.2.	0.5	0
193	MicroRNA Expression in Breast Cancer Revealed by Deep Sequencing Technology. , 2013, , 233-261.		0
194	Topology preserving stratification of tissue neoplasticity using Deep Neural Maps and microRNA signatures. <i>BMC Bioinformatics</i> , 2022, 23, 38.	2.7	0