

Markus Hafner

List of Publications by Year in descending order

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98
papers

14,749
citations

26626

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40976

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115
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115
docs citations

115
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptome-wide Identification of RNA-Binding Protein and MicroRNA Target Sites by PAR-CLIP. <i>Cell</i> , 2010, 141, 129-141.	28.9	2,604
2	A census of human RNA-binding proteins. <i>Nature Reviews Genetics</i> , 2014, 15, 829-845.	16.3	1,671
3	FMRP targets distinct mRNA sequence elements to regulate protein expression. <i>Nature</i> , 2012, 492, 382-386.	27.8	656
4	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	605
5	Identification of microRNAs and other small regulatory RNAs using cDNA library sequencing. <i>Methods</i> , 2008, 44, 3-12.	3.8	419
6	Laboratory mice born to wild mice have natural microbiota and model human immune responses. <i>Science</i> , 2019, 365, .	12.6	360
7	MicroRNA Sequence and Expression Analysis in Breast Tumors by Deep Sequencing. <i>Cancer Research</i> , 2011, 71, 4443-4453.	0.9	331
8	Molecular characterization of human Argonaute-containing ribonucleoprotein complexes and their bound target mRNAs. <i>Rna</i> , 2008, 14, 2580-2596.	3.5	327
9	RNA targets of wild-type and mutant FET family proteins. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1428-1431.	8.2	321
10	The Viral and Cellular MicroRNA Targetome in Lymphoblastoid Cell Lines. <i>PLoS Pathogens</i> , 2012, 8, e1002484.	4.7	321
11	RNA-ligase-dependent biases in miRNA representation in deep-sequenced small RNA cDNA libraries. <i>Rna</i> , 2011, 17, 1697-1712.	3.5	307
12	Viral MicroRNA Targetome of KSHV-Infected Primary Effusion Lymphoma Cell Lines. <i>Cell Host and Microbe</i> , 2011, 10, 515-526.	11.0	297
13	miRNA in situ hybridization in formaldehyde and EDC-fixed tissues. <i>Nature Methods</i> , 2009, 6, 139-141.	19.0	282
14	Inhibition of cytohesins by SecinH3 leads to hepatic insulin resistance. <i>Nature</i> , 2006, 444, 941-944.	27.8	225
15	PAR-CLIP - A Method to Identify Transcriptome-wide the Binding Sites of RNA Binding Proteins. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	220
16	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.	7.1	217
17	Identification of RNA-protein interaction networks using PAR-CLIP. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012, 3, 159-177.	6.4	192
18	Human CLP1 Mutations Alter tRNA Biogenesis, Affecting Both Peripheral and Central Nervous System Function. <i>Cell</i> , 2014, 157, 636-650.	28.9	189

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19	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.	5.9	175
20	Absolute quantification of microRNAs by using a universal reference. <i>Rna</i> , 2009, 15, 2375-2384.	3.5	172
21	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	171
22	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.	7.1	168
23	Identification of mRNAs bound and regulated by human LIN28 proteins and molecular requirements for RNA recognition. <i>Rna</i> , 2013, 19, 613-626.	3.5	156
24	PAR-CLIP analysis uncovers AUF1 impact on target RNA fate and genome integrity. <i>Nature Communications</i> , 2014, 5, 5248.	12.8	156
25	CLIP and complementary methods. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	152
26	Global target mRNA specification and regulation by the RNA-binding protein ZFP36. <i>Genome Biology</i> , 2014, 15, R12.	9.6	141
27	Human proteins that interact with RNA/DNA hybrids. <i>Genome Research</i> , 2018, 28, 1405-1414.	5.5	130
28	A Muscle-Specific Enhancer RNA Mediates Cohesin Recruitment and Regulates Transcription In trans. <i>Molecular Cell</i> , 2018, 71, 129-141.e8.	9.7	126
29	Evolutionary Conservation and Expression of Human RNA-Binding Proteins and Their Role in Human Genetic Disease. <i>Advances in Experimental Medicine and Biology</i> , 2014, 825, 1-55.	1.6	119
30	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.	2.5	114
31	Deep sequencing of small RNAs specifically associated with Arabidopsis AGO1 and AGO4 uncovers new AGO functions. <i>Plant Journal</i> , 2011, 67, 292-304.	5.7	114
32	Barcoded cDNA library preparation for small RNA profiling by next-generation sequencing. <i>Methods</i> , 2012, 58, 164-170.	3.8	114
33	DHX36 prevents the accumulation of translationally inactive mRNAs with G4-structures in untranslated regions. <i>Nature Communications</i> , 2019, 10, 2421.	12.8	112
34	DND1 maintains germline stem cells via recruitment of the CCR4-NOT complex to target mRNAs. <i>Nature</i> , 2017, 543, 568-572.	27.8	109
35	Argonaute-miRNA Complexes Silence Target mRNAs in the Nucleus of Mammalian Stem Cells. <i>Molecular Cell</i> , 2018, 71, 1040-1050.e8.	9.7	107
36	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

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37	The Human CCHC-type Zinc Finger Nucleic Acid-Binding Protein Binds G-Rich Elements in Target mRNA Coding Sequences and Promotes Translation. <i>Cell Reports</i> , 2017, 18, 2979-2990.	6.4	106
38	Rapid image deconvolution and multiview fusion for optical microscopy. <i>Nature Biotechnology</i> , 2020, 38, 1337-1346.	17.5	105
39	Profiling of m6A RNA modifications identified an age-associated regulation of AGO2 mRNA stability. <i>Aging Cell</i> , 2018, 17, e12753.	6.7	101
40	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.	5.9	97
41	The miR-17-92 cluster and its target THBS1 are differentially expressed in angiosarcomas dependent on MYC amplification. <i>Genes Chromosomes and Cancer</i> , 2012, 51, 569-578.	2.8	96
42	MicroRNAs miR-26a, miR-26b, and miR-29b accelerate osteogenic differentiation of unrestricted somatic stem cells from human cord blood. <i>BMC Genomics</i> , 2013, 14, 111.	2.8	94
43	RNA-binding protein IGF2BP1 maintains leukemia stem cell properties by regulating HOXB4, MYB, and ALDH1A1. <i>Leukemia</i> , 2020, 34, 1354-1363.	7.2	94
44	Genome-wide identification of miRNA targets by PAR-CLIP. <i>Methods</i> , 2012, 58, 94-105.	3.8	91
45	PAR-CLIP (Photoactivatable Ribonucleoside-Enhanced Crosslinking and Immunoprecipitation). <i>Methods in Enzymology</i> , 2014, 539, 113-161.	1.0	90
46	Dynamic imaging of nascent RNA reveals general principles of transcription dynamics and stochastic splice site selection. <i>Cell</i> , 2021, 184, 2878-2895.e20.	28.9	89
47	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.	7.1	82
48	RNA Polymerase III Output Is Functionally Linked to tRNA Dimethyl-G26 Modification. <i>PLoS Genetics</i> , 2015, 11, e1005671.	3.5	81
49	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.	3.2	77
50	ONC201 kills breast cancer cells in vitro by targeting mitochondria. <i>Oncotarget</i> , 2018, 9, 18454-18479.	1.8	77
51	Multicolor microRNA FISH effectively differentiates tumor types. <i>Journal of Clinical Investigation</i> , 2013, 123, 2694-2702.	8.2	76
52	Displacement of protein-bound aptamers with small molecules screened by fluorescence polarization. <i>Nature Protocols</i> , 2008, 3, 579-587.	12.0	74
53	The splicing factor U2AF1 contributes to cancer progression through a noncanonical role in translation regulation. <i>Genes and Development</i> , 2019, 33, 482-497.	5.9	74
54	Proximity-CLIP provides a snapshot of protein-occupied RNA elements in subcellular compartments. <i>Nature Methods</i> , 2018, 15, 1074-1082.	19.0	65

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55	Evolving specificity of tRNA 3-methyl-cytidine-32 (m ³ C32) modification: a subset of tRNAs ^{ser} requires N ⁶ -isopentenylolation of A37. <i>Rna</i> , 2016, 22, 1400-1410.	3.5	64
56	Many si/shRNAs can kill cancer cells by targeting multiple survival genes through an off-target mechanism. <i>ELife</i> , 2017, 6, .	6.0	62
57	Laser capture microdissection followed by next-generation sequencing identifies disease-related microRNA ^s in psoriatic skin that reflect systemic microRNA ^s changes in psoriasis. <i>Experimental Dermatology</i> , 2015, 24, 187-193.	2.9	61
58	Bioinformatic analysis of barcoded cDNA libraries for small RNA profiling by next-generation sequencing. <i>Methods</i> , 2012, 58, 171-187.	3.8	55
59	PAR-CLIP: A Method for Transcriptome-Wide Identification of RNA Binding Protein Interaction Sites. <i>Methods in Molecular Biology</i> , 2016, 1358, 153-173.	0.9	55
60	ELAVL1 Modulates Transcriptome-wide miRNA Binding in Murine Macrophages. <i>Cell Reports</i> , 2014, 9, 2330-2343.	6.4	54
61	Enhancement of LIN28B-induced hematopoietic reprogramming by IGF2BP3. <i>Genes and Development</i> , 2019, 33, 1048-1068.	5.9	53
62	miR-450a Acts as a Tumor Suppressor in Ovarian Cancer by Regulating Energy Metabolism. <i>Cancer Research</i> , 2019, 79, 3294-3305.	0.9	51
63	Aberrant tRNA processing causes an autoinflammatory syndrome responsive to TNF inhibitors. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 612-619.	0.9	49
64	Quantitative mass spectrometry and PAR-CLIP to identify RNA-protein interactions. <i>Nucleic Acids Research</i> , 2012, 40, 9897-9902.	14.5	45
65	Balancing of mitochondrial translation through METTL8-mediated m ³ C modification of mitochondrial tRNAs. <i>Molecular Cell</i> , 2021, 81, 4810-4825.e12.	9.7	44
66	LARP4 mRNA codon-tRNA match contributes to LARP4 activity for ribosomal protein mRNA poly(A) tail length protection. <i>ELife</i> , 2017, 6, .	6.0	43
67	AUF1 promotes let-7b loading on Argonaute 2. <i>Genes and Development</i> , 2015, 29, 1599-1604.	5.9	41
68	Genome-wide annotation and analysis of zebra finch microRNA repertoire reveal sex-biased expression. <i>BMC Genomics</i> , 2012, 13, 727.	2.8	39
69	6mer seed toxicity in tumor suppressive microRNAs. <i>Nature Communications</i> , 2018, 9, 4504.	12.8	37
70	Mammalian miRNA curation through next-generation sequencing. <i>Frontiers in Genetics</i> , 2013, 4, 145.	2.3	36
71	Post-transcriptional Control of Tumor Cell Autonomous Metastatic Potential by CCR4-NOT Deadenylase CNOT7. <i>PLoS Genetics</i> , 2016, 12, e1005820.	3.5	33
72	CD95/Fas ligand mRNA is toxic to cells. <i>ELife</i> , 2018, 7, .	6.0	32

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73	MicroRNA-221 and -222 modulate intestinal inflammatory Th17 cell response as negative feedback regulators downstream of interleukin-23. <i>Immunity</i> , 2021, 54, 514-525.e6.	14.3	30
74	PAR-CLIP and streamlined small RNA cDNA library preparation protocol for the identification of RNA binding protein target sites. <i>Methods</i> , 2017, 118-119, 41-49.	3.8	29
75	The p53-induced RNA-binding protein ZMAT3 is a splicing regulator that inhibits the splicing of oncogenic CD44 variants in colorectal carcinoma. <i>Genes and Development</i> , 2021, 35, 102-116.	5.9	29
76	Cytokine-enhanced cytolytic activity of exosomes from NK Cells. <i>Cancer Gene Therapy</i> , 2022, 29, 734-749.	4.6	29
77	Keratin 19 regulates cell cycle pathway and sensitivity of breast cancer cells to CDK inhibitors. <i>Scientific Reports</i> , 2019, 9, 14650.	3.3	27
78	RNA Externalized by Neutrophil Extracellular Traps Promotes Inflammatory Pathways in Endothelial Cells. <i>Arthritis and Rheumatology</i> , 2021, 73, 2282-2292.	5.6	27
79	Multiple capsid protein binding sites mediate selective packaging of the alphavirus genomic RNA. <i>Nature Communications</i> , 2020, 11, 4693.	12.8	23
80	Dysregulation of Lipid Metabolism in Mkp-1 Deficient Mice during Gram-Negative Sepsis. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3904.	4.1	21
81	New insights in the mechanism of microRNA-mediated target repression. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1181-1182.	8.2	18
82	Learning the language of post-transcriptional gene regulation. <i>Genome Biology</i> , 2013, 14, 130.	8.8	18
83	A non-radioactive, improved PAR-CLIP and small RNA cDNA library preparation protocol. <i>Nucleic Acids Research</i> , 2021, 49, e45-e45.	14.5	16
84	Posttranscriptional regulation of human endogenous retroviruses by RNA-binding motif protein 4, RBM4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26520-26530.	7.1	11
85	The miR-26 family regulates neural differentiation-associated microRNAs and mRNAs by directly targeting REST. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	10
86	PAR-CLIP: A Method for Transcriptome-Wide Identification of RNA Binding Protein Interaction Sites. <i>Methods in Molecular Biology</i> , 2022, 2404, 167-188.	0.9	9
87	A miR-375/YAP axis regulates neuroendocrine differentiation and tumorigenesis in lung carcinoid cells. <i>Scientific Reports</i> , 2021, 11, 10455.	3.3	7
88	The nuclear transcription factor, TAF7, is a cytoplasmic regulator of protein synthesis. <i>Science Advances</i> , 2021, 7, eabi5751.	10.3	7
89	Evolving Views of Long Noncoding RNAs and Epigenomic Control of Lymphocyte State and Memory. <i>Cold Spring Harbor Perspectives in Biology</i> , 2022, 14, a037952.	5.5	6
90	Knockout of MAPK Phosphatase-1 Exaggerates Type I IFN Response during Systemic Escherichia coli Infection. <i>Journal of Immunology</i> , 2021, 206, 2966-2979.	0.8	6

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91	MKP-1 modulates ubiquitination/phosphorylation of TLR signaling. Life Science Alliance, 2021, 4, e202101137.	2.8	5
92	Proximity-CLIP. Protocol Exchange, 0, , .	0.3	3
93	Proximity-CLIP and Expedited Non-Radioactive Library Preparation of Small RNA Footprints for Next-Generation Sequencing. Current Protocols in Molecular Biology, 2020, 131, e120.	2.9	2
94	Mitogen-Activated Protein Kinase Phosphatase-1 Controls PD-L1 Expression by Regulating Type I Interferon during Systemic Escherichia coli Infection. Journal of Biological Chemistry, 2022, , 101938.	3.4	2
95	Proximity-CLIP Provides a Snapshot of Protein-Occupied RNA Elements at Subcellular Resolution and Transcriptome-Wide Scale. Methods in Molecular Biology, 2020, 2166, 283-305.	0.9	1
96	Analysis of the miRNA targetome in EBV-infected B cells. Infectious Agents and Cancer, 2012, 7, .	2.6	0
97	PAR-CLIP: A Genomic Technique to Dissect RNA-Protein Interactions. , 2016, , 261-289.		0
98	Transcriptome-wide Identification of the mRNA target sites of the Fragile X Mental Retardation Proteins. FASEB Journal, 2009, 23, 666.2.	0.5	0