

# Phillip A Sharp

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97 papers	37,038 citations	74 h-index	106 g-index
106 ext. papers	42,586 ext. citations	28.7 avg, IF	7.44 L-index

#	Paper	IF	Citations
97	Histone H3K27ac separates active from poised enhancers and predicts developmental state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 21931-6	11.5	2453
96	RNAi: double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals. <i>Cell</i> , <b>2000</b> , 101, 25-33	56.2	2137
95	In vivo genome editing using <i>Staphylococcus aureus</i> Cas9. <i>Nature</i> , <b>2015</b> , 520, 186-91	50.4	1700
94	MicroRNA sponges: competitive inhibitors of small RNAs in mammalian cells. <i>Nature Methods</i> , <b>2007</b> , 4, 721-6	21.6	1619
93	Targeted deletion reveals essential and overlapping functions of the miR-17 through 92 family of miRNA clusters. <i>Cell</i> , <b>2008</b> , 132, 875-86	56.2	1332
92	Specificity of microRNA target selection in translational repression. <i>Genes and Development</i> , <b>2004</b> , 18, 504-11	12.6	1249
91	Connecting microRNA genes to the core transcriptional regulatory circuitry of embryonic stem cells. <i>Cell</i> , <b>2008</b> , 134, 521-33	56.2	1228
90	A nuclear factor that binds to a conserved sequence motif in transcriptional control elements of immunoglobulin genes. <i>Nature</i> , <b>1986</b> , 319, 154-8	50.4	1167
89	Roles for microRNAs in conferring robustness to biological processes. <i>Cell</i> , <b>2012</b> , 149, 515-24	56.2	1162
88	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. <i>Cell</i> , <b>2014</b> , 159, 440-55	56.2	1089
87	Five intermediate complexes in transcription initiation by RNA polymerase II. <i>Cell</i> , <b>1989</b> , 56, 549-61	56.2	987
86	Coactivator condensation at super-enhancers links phase separation and gene control. <i>Science</i> , <b>2018</b> , 361,	33.3	951
85	Spliced segments at the 5' terminus of adenovirus 2 late mRNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1977</b> , 74, 3171-5	11.5	942
84	Embryonic stem cell-specific MicroRNAs. <i>Developmental Cell</i> , <b>2003</b> , 5, 351-8	10.2	938
83	siRNAs can function as miRNAs. <i>Genes and Development</i> , <b>2003</b> , 17, 438-42	12.6	935
82	c-Myc regulates transcriptional pause release. <i>Cell</i> , <b>2010</b> , 141, 432-45	56.2	930
81	Lentivirus-delivered stable gene silencing by RNAi in primary cells. <i>Rna</i> , <b>2003</b> , 9, 493-501	5.8	920

80	A Phase Separation Model for Transcriptional Control. <i>Cell</i> , <b>2017</b> , 169, 13-23	56.2	856
79	A lymphoid-specific protein binding to the octamer motif of immunoglobulin genes. <i>Nature</i> , <b>1986</b> , 323, 640-3	50.4	728
78	Divergent transcription from active promoters. <i>Science</i> , <b>2008</b> , 322, 1849-51	33.3	695
77	Genome editing with Cas9 in adult mice corrects a disease mutation and phenotype. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 551-3	44.5	694
76	Genome-wide binding of the CRISPR endonuclease Cas9 in mammalian cells. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 670-6	44.5	666
75	Genome-wide CRISPR screen in a mouse model of tumor growth and metastasis. <i>Cell</i> , <b>2015</b> , 160, 1246-60	56.2	544
74	CRISPR-mediated direct mutation of cancer genes in the mouse liver. <i>Nature</i> , <b>2014</b> , 514, 380-4	50.4	521
73	MicroRNA sponges: progress and possibilities. <i>Rna</i> , <b>2010</b> , 16, 2043-50	5.8	512
72	Regulation by HIV Rev depends upon recognition of splice sites. <i>Cell</i> , <b>1989</b> , 59, 789-95	56.2	498
71	MicroRNAs can generate thresholds in target gene expression. <i>Nature Genetics</i> , <b>2011</b> , 43, 854-9	36.3	484
70	Emerging roles for natural microRNA sponges. <i>Current Biology</i> , <b>2010</b> , 20, R858-61	6.3	379
69	Divergent transcription of long noncoding RNA/mRNA gene pairs in embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 2876-81	11.5	345
68	DNA topology and a minimal set of basal factors for transcription by RNA polymerase II. <i>Cell</i> , <b>1993</b> , 73, 533-40	56.2	343
67	The centrality of RNA. <i>Cell</i> , <b>2009</b> , 136, 577-80	56.2	322
66	LincRNA-p21 activates p21 in cis to promote Polycomb target gene expression and to enforce the G1/S checkpoint. <i>Molecular Cell</i> , <b>2014</b> , 54, 777-90	17.6	319
65	Promoter directionality is controlled by U1 snRNP and polyadenylation signals. <i>Nature</i> , <b>2013</b> , 499, 360-3	50.4	294
64	The sequences of an expressed rat alpha-tubulin gene and a pseudogene with an inserted repetitive element. <i>Nature</i> , <b>1982</b> , 300, 330-5	50.4	278
63	The role of miRNAs in regulating gene expression networks. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 3582-600	6.5	277

62	Endogenous miRNA and target concentrations determine susceptibility to potential ceRNA competition. <i>Molecular Cell</i> , <b>2014</b> , 56, 347-359	17.6	271
61	Transcription factor trapping by RNA in gene regulatory elements. <i>Science</i> , <b>2015</b> , 350, 978-81	33.3	267
60	RNA sequence analysis defines Dicer's role in mouse embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 18097-102	11.5	261
59	Regulation of heat shock protein 70 gene expression by c-myc. <i>Nature</i> , <b>1984</b> , 312, 280-2	50.4	260
58	PolIII phosphorylation regulates a switch between transcriptional and splicing condensates. <i>Nature</i> , <b>2019</b> , 572, 543-548	50.4	255
57	RNA Bind-n-Seq: quantitative assessment of the sequence and structural binding specificity of RNA binding proteins. <i>Molecular Cell</i> , <b>2014</b> , 54, 887-900	17.6	251
56	Detained introns are a novel, widespread class of post-transcriptionally spliced introns. <i>Genes and Development</i> , <b>2015</b> , 29, 63-80	12.6	228
55	Evolutionary fates and origins of U12-type introns. <i>Molecular Cell</i> , <b>1998</b> , 2, 773-85	17.6	213
54	Evidence for two active sites in the spliceosome provided by stereochemistry of pre-mRNA splicing. <i>Nature</i> , <b>1993</b> , 365, 364-8	50.4	213
53	Characterization of the branch site in lariat RNAs produced by splicing of mRNA precursors. <i>Nature</i> , <b>1985</b> , 313, 552-7	50.4	213
52	Genome-wide identification of Ago2 binding sites from mouse embryonic stem cells with and without mature microRNAs. <i>Nature Structural and Molecular Biology</i> , <b>2011</b> , 18, 237-44	17.6	202
51	Conversion of RNA to DNA in mammals: Alu-like elements and pseudogenes. <i>Nature</i> , <b>1983</b> , 301, 471-2	50.4	202
50	Target specificity of the CRISPR-Cas9 system. <i>Quantitative Biology</i> , <b>2014</b> , 2, 59-70	3.9	184
49	Super-Enhancer-Mediated RNA Processing Revealed by Integrative MicroRNA Network Analysis. <i>Cell</i> , <b>2017</b> , 168, 1000-1014.e15	56.2	167
48	Cell-Type-Specific Alternative Splicing Governs Cell Fate in the Developing Cerebral Cortex. <i>Cell</i> , <b>2016</b> , 166, 1147-1162.e15	56.2	159
47	Single nucleotide polymorphism-based validation of exonic splicing enhancers. <i>PLoS Biology</i> , <b>2004</b> , 2, E268	9.7	158
46	Enhancer Features that Drive Formation of Transcriptional Condensates. <i>Molecular Cell</i> , <b>2019</b> , 75, 549-561.e7	61.6	155
45	Antisense RNA polymerase II divergent transcripts are P-TEFb dependent and substrates for the RNA exosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10460-5	11.5	141

44	Divergent transcription: a new feature of active promoters. <i>Cell Cycle</i> , <b>2009</b> , 8, 2557-64	4.7	140
43	MiR-17/20/93/106 promote hematopoietic cell expansion by targeting sequestosome 1-regulated pathways in mice. <i>Blood</i> , <b>2011</b> , 118, 916-25	2.2	125
42	Partitioning of cancer therapeutics in nuclear condensates. <i>Science</i> , <b>2020</b> , 368, 1386-1392	33.3	120
41	Mir-290-295 deficiency in mice results in partially penetrant embryonic lethality and germ cell defects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 14163-8	11.5	120
40	AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 1329-1341	25.5	119
39	Divergent transcription: a driving force for new gene origination?. <i>Cell</i> , <b>2013</b> , 155, 990-6	56.2	118
38	Characterization of a highly variable eutherian microRNA gene. <i>Rna</i> , <b>2005</b> , 11, 1245-57	5.8	117
37	Building robust transcriptomes with master splicing factors. <i>Cell</i> , <b>2014</b> , 159, 487-98	56.2	104
36	PUF60: a novel U2AF65-related splicing activity. <i>Rna</i> , <b>1999</b> , 5, 1548-60	5.8	101
35	CDK12 regulates DNA repair genes by suppressing intronic polyadenylation. <i>Nature</i> , <b>2018</b> , 564, 141-145	50.4	100
34	Coordinated Splicing of Regulatory Detained Introns within Oncogenic Transcripts Creates an Exploitable Vulnerability in Malignant Glioma. <i>Cancer Cell</i> , <b>2017</b> , 32, 411-426.e11	24.3	99
33	RNA-Mediated Feedback Control of Transcriptional Condensates. <i>Cell</i> , <b>2021</b> , 184, 207-225.e24	56.2	99
32	A gene chimaera of SV40 and mouse beta-globin is transcribed and properly spliced. <i>Nature</i> , <b>1981</b> , 289, 378-82	50.4	89
31	In vivo structure-function analysis of human Dicer reveals directional processing of precursor miRNAs. <i>Rna</i> , <b>2012</b> , 18, 1116-22	5.8	88
30	Research agenda. Promoting convergence in biomedical science. <i>Science</i> , <b>2011</b> , 333, 527	33.3	87
29	Cofactor requirements of splicing of purified messenger RNA precursors. <i>Nature</i> , <b>1984</b> , 308, 375-7	50.4	84
28	Argonaute-bound small RNAs from promoter-proximal RNA polymerase II. <i>Cell</i> , <b>2014</b> , 156, 920-34	56.2	83
27	A latent pro-survival function for the mir-290-295 cluster in mouse embryonic stem cells. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002054	6	83

26	Rbfox2 controls autoregulation in RNA-binding protein networks. <i>Genes and Development</i> , <b>2014</b> , 28, 637-51	12.6	82
25	Synthetic RNA-Based Immunomodulatory Gene Circuits for Cancer Immunotherapy. <i>Cell</i> , <b>2017</b> , 171, 1138-1150.e15	15.8	15
24	The SRm160/300 splicing coactivator subunits. <i>Rna</i> , <b>2000</b> , 6, 111-20	5.8	76
23	Elucidating MicroRNA Regulatory Networks Using Transcriptional, Post-transcriptional, and Histone Modification Measurements. <i>Cell Reports</i> , <b>2016</b> , 14, 310-9	10.6	71
22	Inhibition of adenovirus early region IV transcription in vitro by a purified viral DNA binding protein. <i>Nature</i> , <b>1983</b> , 302, 545-7	50.4	71
21	Transcriptional Pause Sites Delineate Stable Nucleosome-Associated Premature Polyadenylation Suppressed by U1 snRNP. <i>Molecular Cell</i> , <b>2018</b> , 69, 648-663.e7	17.6	65
20	Global microRNA depletion suppresses tumor angiogenesis. <i>Genes and Development</i> , <b>2014</b> , 28, 1054-67	12.6	52
19	Genome-wide impact of a recently expanded microRNA cluster in mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 15804-9	11.5	42
18	Gain-of-function mutation of microRNA-140 in human skeletal dysplasia. <i>Nature Medicine</i> , <b>2019</b> , 25, 583-590	50.3	38
17	Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPR-mediated direct in vivo screening. <i>Science Advances</i> , <b>2018</b> , 4, eaao5508	14.3	37
16	Let-7 represses Nr6a1 and a mid-gestation developmental program in adult fibroblasts. <i>Genes and Development</i> , <b>2013</b> , 27, 941-54	12.6	34
15	Evolution of weak cooperative interactions for biological specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E11053-E11060	11.5	21
14	A ribozyme selected from variants of U6 snRNA promotes 2L5U branch formation. <i>Rna</i> , <b>2001</b> , 7, 29-43	5.8	16
13	Imprinted Maternally Expressed microRNAs Antagonize Paternally Driven Gene Programs in Neurons. <i>Molecular Cell</i> , <b>2020</b> , 78, 85-95.e8	17.6	14
12	Deconvolution of seed and RNA-binding protein crosstalk in RNAi-based functional genomics. <i>Nature Genetics</i> , <b>2018</b> , 50, 657-661	36.3	14
11	GENE EXPRESSION. Single-cell variability guided by microRNAs. <i>Science</i> , <b>2016</b> , 352, 1390-1	33.3	14
10	Alternative RNA splicing in the endothelium mediated in part by Rbfox2 regulates the arterial response to low flow. <i>ELife</i> , <b>2018</b> , 7,	8.9	14
9	Sequestration of microRNA-mediated target repression by the Ago2-associated RNA-binding protein FAM120A. <i>Rna</i> , <b>2019</b> , 25, 1291-1297	5.8	12

8	Split Genes and RNA Splicing (Nobel Lecture). <i>Angewandte Chemie International Edition in English</i> , <b>1994</b> , 33, 1229-1240		12
7	Dicer loss and recovery induce an oncogenic switch driven by transcriptional activation of the oncofetal Imp1-3 family. <i>Genes and Development</i> , <b>2017</b> , 31, 674-687	12.6	11
6	MicroRNAs organize intrinsic variation into stem cell states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 6942-6950	11.5	10
5	A novel 50-kilodalton fragment of host cell factor 1 (C1) in G(0) cells. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 3568-75	4.8	7
4	RNA in formation and regulation of transcriptional condensates. <i>Rna</i> , <b>2021</b> ,	5.8	5
3	Enhancer features that drive formation of transcriptional condensates		1
2	CDK13 Mutations Drive Melanoma via Accumulation of Prematurely Terminated Transcripts		1
1	View of life sciences in the 21st century. <i>Journal of Dermatological Science</i> , <b>2000</b> , 24 Suppl 1, S1-14	4.3	