

Benjamin J Blencowe

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.

126
papers

19,611
citations

59
h-index

138
g-index

138
ext. papers

23,823
ext. citations

16.4
avg, IF

6.9
L-index

#	Paper	IF	Citations
126	Deep surveying of alternative splicing complexity in the human transcriptome by high-throughput sequencing. <i>Nature Genetics</i> , 2008 , 40, 1413-5	36.3	2519
125	The nuclear-retained noncoding RNA MALAT1 regulates alternative splicing by modulating SR splicing factor phosphorylation. <i>Molecular Cell</i> , 2010 , 39, 925-38	17.6	1580
124	Transcriptomic analysis of autistic brain reveals convergent molecular pathology. <i>Nature</i> , 2011 , 474, 380-4	50.4	1281
123	A compendium of RNA-binding motifs for decoding gene regulation. <i>Nature</i> , 2013 , 499, 172-7	50.4	926
122	Alternative splicing: new insights from global analyses. <i>Cell</i> , 2006 , 126, 37-47	56.2	858
121	Regulation of alternative splicing by histone modifications. <i>Science</i> , 2010 , 327, 996-1000	33.3	769
120	RNA splicing. The human splicing code reveals new insights into the genetic determinants of disease. <i>Science</i> , 2015 , 347, 1254806	33.3	748
119	The evolutionary landscape of alternative splicing in vertebrate species. <i>Science</i> , 2012 , 338, 1587-93	33.3	657
118	Deciphering the splicing code. <i>Nature</i> , 2010 , 465, 53-9	50.4	624
117	Exonic splicing enhancers: mechanism of action, diversity and role in human genetic diseases. <i>Trends in Biochemical Sciences</i> , 2000 , 25, 106-10	10.3	534
116	An RNA map predicting Nova-dependent splicing regulation. <i>Nature</i> , 2006 , 444, 580-6	50.4	413
115	Widespread intron retention in mammals functionally tunes transcriptomes. <i>Genome Research</i> , 2014 , 24, 1774-86	9.7	377
114	Genome-wide changes in lncRNA, splicing, and regional gene expression patterns in autism. <i>Nature</i> , 2016 , 540, 423-427	50.4	362
113	A highly conserved program of neuronal microexons is misregulated in autistic brains. <i>Cell</i> , 2014 , 159, 1511-23	56.2	356
112	Dynamic integration of splicing within gene regulatory pathways. <i>Cell</i> , 2013 , 152, 1252-69	56.2	299
111	Tissue-specific alternative splicing remodels protein-protein interaction networks. <i>Molecular Cell</i> , 2012 , 46, 884-92	17.6	280
110	Alternative Splicing in the Mammalian Nervous System: Recent Insights into Mechanisms and Functional Roles. <i>Neuron</i> , 2015 , 87, 14-27	13.9	272

109	Revealing global regulatory features of mammalian alternative splicing using a quantitative microarray platform. <i>Molecular Cell</i> , 2004 , 16, 929-41	17.6	263
108	An alternative splicing switch regulates embryonic stem cell pluripotency and reprogramming. <i>Cell</i> , 2011 , 147, 132-46	56.2	253
107	The functional landscape of mouse gene expression. <i>Journal of Biology</i> , 2004 , 3, 21		232
106	MBNL proteins repress ES-cell-specific alternative splicing and reprogramming. <i>Nature</i> , 2013 , 498, 241-55	0.4	222
105	Global Mapping of Human RNA-RNA Interactions. <i>Molecular Cell</i> , 2016 , 62, 618-26	17.6	221
104	5-hmC in the brain is abundant in synaptic genes and shows differences at the exon-intron boundary. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1037-43	17.6	186
103	Quantitative microarray profiling provides evidence against widespread coupling of alternative splicing with nonsense-mediated mRNA decay to control gene expression. <i>Genes and Development</i> , 2006 , 20, 153-8	12.6	176
102	Regulation of multiple core spliceosomal proteins by alternative splicing-coupled nonsense-mediated mRNA decay. <i>Molecular and Cellular Biology</i> , 2008 , 28, 4320-30	4.8	164
101	An atlas of alternative splicing profiles and functional associations reveals new regulatory programs and genes that simultaneously express multiple major isoforms. <i>Genome Research</i> , 2017 , 27, 1759-1768	9.7	157
100	Alternative Splicing Regulatory Networks: Functions, Mechanisms, and Evolution. <i>Molecular Cell</i> , 2019 , 76, 329-345	17.6	156
99	Regulation of vertebrate nervous system alternative splicing and development by an SR-related protein. <i>Cell</i> , 2009 , 138, 898-910	56.2	154
98	A comparative transcriptomic analysis reveals conserved features of stem cell pluripotency in planarians and mammals. <i>Stem Cells</i> , 2012 , 30, 1734-45	5.8	151
97	Regulation of alternative splicing by the core spliceosomal machinery. <i>Genes and Development</i> , 2011 , 25, 373-84	12.6	149
96	Current-generation high-throughput sequencing: deepening insights into mammalian transcriptomes. <i>Genes and Development</i> , 2009 , 23, 1379-86	12.6	130
95	Alternative splicing of conserved exons is frequently species-specific in human and mouse. <i>Trends in Genetics</i> , 2005 , 21, 73-7	8.5	125
94	Smg1 is required for embryogenesis and regulates diverse genes via alternative splicing coupled to nonsense-mediated mRNA decay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12186-91	11.5	124
93	Global analysis of alternative splicing during T-cell activation. <i>Rna</i> , 2007 , 13, 563-72	5.8	124
92	Brain-expressed exons under purifying selection are enriched for de novo mutations in autism spectrum disorder. <i>Nature Genetics</i> , 2014 , 46, 742-7	36.3	121

91	Alternative splicing: decoding an expansive regulatory layer. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 323-32	9	118
90	Global profiling and molecular characterization of alternative splicing events misregulated in lung cancer. <i>Molecular and Cellular Biology</i> , 2011 , 31, 138-50	4.8	115
89	Global analysis of alternative splicing differences between humans and chimpanzees. <i>Genes and Development</i> , 2007 , 21, 2963-75	12.6	115
88	Genome-wide analysis of alternative splicing in <i>Caenorhabditis elegans</i> . <i>Genome Research</i> , 2011 , 21, 342-87	9.7	114
87	SR-related proteins and the processing of messenger RNA precursors. <i>Biochemistry and Cell Biology</i> , 1999 , 77, 277-291	3.6	106
86	Regulated aggregative multicellularity in a close unicellular relative of metazoa. <i>ELife</i> , 2013 , 2, e01287	8.9	104
85	Cross-regulation between an alternative splicing activator and a transcription repressor controls neurogenesis. <i>Molecular Cell</i> , 2011 , 43, 843-50	17.6	101
84	An alternative splicing event amplifies evolutionary differences between vertebrates. <i>Science</i> , 2015 , 349, 868-73	33.3	89
83	Functional coordination of alternative splicing in the mammalian central nervous system. <i>Genome Biology</i> , 2007 , 8, R108	18.3	88
82	A global regulatory mechanism for activating an exon network required for neurogenesis. <i>Molecular Cell</i> , 2014 , 56, 90-103	17.6	85
81	The ribosome-engaged landscape of alternative splicing. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 1117-1123	17.6	84
80	SRm160 splicing coactivator promotes transcript 3'-end cleavage. <i>Molecular and Cellular Biology</i> , 2002 , 22, 148-60	4.8	84
79	Essential roles for the splicing regulator nSR100/SRRM4 during nervous system development. <i>Genes and Development</i> , 2015 , 29, 746-59	12.6	82
78	Misregulation of an Activity-Dependent Splicing Network as a Common Mechanism Underlying Autism Spectrum Disorders. <i>Molecular Cell</i> , 2016 , 64, 1023-1034	17.6	81
77	The Relationship between Alternative Splicing and Proteomic Complexity. <i>Trends in Biochemical Sciences</i> , 2017 , 42, 407-408	10.3	78
76	QAPA: a new method for the systematic analysis of alternative polyadenylation from RNA-seq data. <i>Genome Biology</i> , 2018 , 19, 45	18.3	77
75	The SRm160/300 splicing coactivator subunits. <i>Rna</i> , 2000 , 6, 111-20	5.8	76
74	Compound heterozygous mutations in the noncoding RNU4ATAC cause Roifman Syndrome by disrupting minor intron splicing. <i>Nature Communications</i> , 2015 , 6, 8718	17.4	74

73	Regulatory Expansion in Mammals of Multivalent hnRNP Assemblies that Globally Control Alternative Splicing. <i>Cell</i> , 2017 , 170, 324-339.e23	56.2	72
72	Alternative splicing networks regulated by signaling in human T cells. <i>Rna</i> , 2012 , 18, 1029-40	5.8	70
71	A systematic analysis of intronic sequences downstream of 5' splice sites reveals a widespread role for U-rich motifs and TIA1/TIAL1 proteins in alternative splicing regulation. <i>Genome Research</i> , 2008 , 18, 1247-58	9.7	67
70	Multilayered Control of Alternative Splicing Regulatory Networks by Transcription Factors. <i>Molecular Cell</i> , 2017 , 65, 539-553.e7	17.6	65
69	Autism spectrum disorder: insights into convergent mechanisms from transcriptomics. <i>Nature Reviews Genetics</i> , 2019 , 20, 51-63	30.1	65
68	Networking in a global world: establishing functional connections between neural splicing regulators and their target transcripts. <i>Rna</i> , 2011 , 17, 775-91	5.8	59
67	An extensive program of periodic alternative splicing linked to cell cycle progression. <i>ELife</i> , 2016 , 5,	8.9	59
66	Efficient and Accurate Quantitative Profiling of Alternative Splicing Patterns of Any Complexity on a Laptop. <i>Molecular Cell</i> , 2018 , 72, 187-200.e6	17.6	57
65	A germline mutation in SRRM2, a splicing factor gene, is implicated in papillary thyroid carcinoma predisposition. <i>Scientific Reports</i> , 2015 , 5, 10566	4.9	56
64	Stromal Fat4 acts non-autonomously with Dchs1/2 to restrict the nephron progenitor pool. <i>Development (Cambridge)</i> , 2015 , 142, 2564-73	6.6	56
63	Myc and SAGA rewire an alternative splicing network during early somatic cell reprogramming. <i>Genes and Development</i> , 2015 , 29, 803-16	12.6	55
62	Genetic interaction mapping and exon-resolution functional genomics with a hybrid Cas9-Cas12a platform. <i>Nature Biotechnology</i> , 2020 , 38, 638-648	44.5	54
61	Inferring global levels of alternative splicing isoforms using a generative model of microarray data. <i>Bioinformatics</i> , 2006 , 22, 606-13	7.2	52
60	Epstein-Barr virus EBNA1 protein regulates viral latency through effects on let-7 microRNA and dicer. <i>Journal of Virology</i> , 2014 , 88, 11166-77	6.6	51
59	Genome-wide CRISPR-Cas9 Interrogation of Splicing Networks Reveals a Mechanism for Recognition of Autism-Misregulated Neuronal Microexons. <i>Molecular Cell</i> , 2018 , 72, 510-524.e12	17.6	51
58	Characterization of disease-associated mutations affecting an exonic splicing enhancer and two cryptic splice sites in exon 13 of the cystic fibrosis transmembrane conductance regulator gene. <i>Human Molecular Genetics</i> , 2003 , 12, 2031-40	5.6	50
57	SnapShot: The splicing regulatory machinery. <i>Cell</i> , 2008 , 133, 192.e1	56.2	46
56	SR-related proteins and the processing of messenger RNA precursors. <i>Biochemistry and Cell Biology</i> , 1999 , 77, 277-91	3.6	46

55	MECP2 Is Post-transcriptionally Regulated during Human Neurodevelopment by Combinatorial Action of RNA-Binding Proteins and miRNAs. <i>Cell Reports</i> , 2016 , 17, 720-734	10.6	44
54	Structure and function of the PWI motif: a novel nucleic acid-binding domain that facilitates pre-mRNA processing. <i>Genes and Development</i> , 2003 , 17, 461-75	12.6	40
53	Distinct factor requirements for exonic splicing enhancer function and binding of U2AF to the polypyrimidine tract. <i>Journal of Biological Chemistry</i> , 1999 , 274, 35074-9	5.4	39
52	Conserved functional antagonism of CELF and MBNL proteins controls stem cell-specific alternative splicing in planarians. <i>ELife</i> , 2016 , 5,	8.9	39
51	Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2. <i>Molecular Cell</i> , 2020 , 80, 1104-1122.e9	17.6	38
50	Control of embryonic stem cell self-renewal and differentiation via coordinated alternative splicing and translation of YY2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12360-12367	11.5	37
49	The alternative splicing factor Nova2 regulates vascular development and lumen formation. <i>Nature Communications</i> , 2015 , 6, 8479	17.4	37
48	Gomafu lncRNA knockout mice exhibit mild hyperactivity with enhanced responsiveness to the psychostimulant methamphetamine. <i>Scientific Reports</i> , 2016 , 6, 27204	4.9	37
47	Multiple interactions between SRm160 and SR family proteins in enhancer-dependent splicing and development of <i>C. elegans</i> . <i>Current Biology</i> , 2001 , 11, 1923-33	6.3	35
46	A novel protein domain in an ancestral splicing factor drove the evolution of neural microexons. <i>Nature Ecology and Evolution</i> , 2019 , 3, 691-701	12.3	33
45	Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. <i>Molecular Cell</i> , 2020 , 77, 1176-1192.e16	17.6	32
44	An evolutionarily conserved role for SRm160 in 3'-end processing that functions independently of exon junction complex formation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 44153-60	5.4	31
43	Major Roles for Pyrimidine Dimers, Nucleotide Excision Repair, and ATR in the Alternative Splicing Response to UV Irradiation. <i>Cell Reports</i> , 2017 , 18, 2868-2879	10.6	29
42	Differential contribution of steady-state RNA and active transcription in chromatin organization. <i>EMBO Reports</i> , 2019 , 20, e48068	6.5	28
41	The Long Noncoding RNA Pnky Is a Trans-acting Regulator of Cortical Development In Vivo. <i>Developmental Cell</i> , 2019 , 49, 632-642.e7	10.2	27
40	Next-generation RNA sequencing of archival formalin-fixed paraffin-embedded urothelial bladder cancer. <i>European Urology</i> , 2014 , 66, 982-6	10.2	27
39	Proteomic analysis of SRm160-containing complexes reveals a conserved association with cohesin. <i>Journal of Biological Chemistry</i> , 2005 , 280, 42227-36	5.4	26
38	The PWI motif: a new protein domain in splicing factors. <i>Trends in Biochemical Sciences</i> , 1999 , 24, 179-80	10.3	25

37	Technologies for the global discovery and analysis of alternative splicing. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 623, 64-84	3.6	25
36	Response to "The Reality of Pervasive Transcription" <i>PLoS Biology</i> , 2011 , 9, e1001102	9.7	23
35	Identification of small molecule modulators of HIV-1 Tat and Rev protein accumulation. <i>Retrovirology</i> , 2017 , 14, 7	3.6	22
34	Model-based detection of alternative splicing signals. <i>Bioinformatics</i> , 2010 , 26, i325-33	7.2	22
33	Splicing regulation: the cell cycle connection. <i>Current Biology</i> , 2003 , 13, R149-51	6.3	20
32	The RNA-binding profile of Acinus, a peripheral component of the exon junction complex, reveals its role in splicing regulation. <i>Rna</i> , 2016 , 22, 1411-26	5.8	20
31	Shifts in Ribosome Engagement Impact Key Gene Sets in Neurodevelopment and Ubiquitination in Rett Syndrome. <i>Cell Reports</i> , 2020 , 30, 4179-4196.e11	10.6	18
30	SARS-CoV-2 Nucleocapsid protein attenuates stress granule formation and alters gene expression via direct interaction with host mRNAs		17
29	Transcription: surprising role for an elusive small nuclear RNA. <i>Current Biology</i> , 2002 , 12, R147-9	6.3	16
28	SARS-CoV-2 nucleocapsid protein binds host mRNAs and attenuates stress granules to impair host stress response.. <i>IScience</i> , 2022 , 25, 103562	6.1	15
27	Functional genomics evidence unearths new moonlighting roles of outer ring coat nucleoporins. <i>Scientific Reports</i> , 2014 , 4, 4655	4.9	14
26	Identification and characterization of RED120: a conserved PWI domain protein with links to splicing and 3'-end formation. <i>FEBS Letters</i> , 2007 , 581, 3087-97	3.8	14
25	A multiplexed, next generation sequencing platform for high-throughput detection of SARS-CoV-2. <i>Nature Communications</i> , 2021 , 12, 1405	17.4	13
24	Microexons: at the nexus of nervous system development, behaviour and autism spectrum disorder. <i>Current Opinion in Genetics and Development</i> , 2020 , 65, 22-33	4.9	12
23	The transcriptional and splicing landscape of intestinal organoids undergoing nutrient starvation or endoplasmic reticulum stress. <i>BMC Genomics</i> , 2016 , 17, 680	4.5	12
22	An exon-centric perspective. <i>Biochemistry and Cell Biology</i> , 2012 , 90, 603-12	3.6	11
21	Differential contribution of transcriptomic regulatory layers in the definition of neuronal identity. <i>Nature Communications</i> , 2021 , 12, 335	17.4	9
20	ARGLU1 is a transcriptional coactivator and splicing regulator important for stress hormone signaling and development. <i>Nucleic Acids Research</i> , 2019 , 47, 2856-2870	20.1	8

19	A Dynamic Splicing Program Ensures Proper Synaptic Connections in the Developing Cerebellum. <i>Cell Reports</i> , 2020 , 31, 107703	10.6	8
18	Whippet: an efficient method for the detection and quantification of alternative splicing reveals extensive transcriptomic complexity		6
17	Post-transcriptional gene regulation: RNA-protein interactions, RNA processing, mRNA stability and localization. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2009 , 545-8	1.3	6
16	Neuronal-specific microexon splicing of mRNA is directly regulated by SRRM4/nSR100. <i>RNA Biology</i> , 2020 , 17, 62-74	4.8	5
15	An activator of G protein-coupled receptor and MEK1/2-ERK1/2 signaling inhibits HIV-1 replication by altering viral RNA processing. <i>PLoS Pathogens</i> , 2020 , 16, e1008307	7.6	3
14	Orchestrating Ribosomal Subunit Coordination to Control Stem Cell Fate. <i>Cell Stem Cell</i> , 2018 , 22, 471-478		3
13	Analysis of combinatorial CRISPR screens with the Orthrus scoring pipeline. <i>Nature Protocols</i> , 2021 , 16, 4766-4798	18.8	3
12	ARGLU1 is a Glucocorticoid Receptor Coactivator and Splicing Modulator Important in Stress Hormone Signaling and Brain Development		2
11	Global changes in patterning, splicing and primate specific lncRNAs in autism brain		2
10	Definition of germ cell lineage alternative splicing programs reveals a critical role for Quaking in specifying cardiac cell fate		2
9	Nuclear compartmentalization of TERT mRNA and TUG1 lncRNA is driven by intron retention. <i>Nature Communications</i> , 2021 , 12, 3308	17.4	2
8	Reflections for the 20th anniversary issue of RNA journal. <i>Rna</i> , 2015 , 21, 573-5	5.8	1
7	A Multiplexed, Next Generation Sequencing Platform for High-Throughput Detection of SARS-CoV-2		1
6	Alternative Splicing in the Mammalian Nervous System. <i>FASEB Journal</i> , 2009 , 23, 422.2	0.9	
5	An activator of G protein-coupled receptor and MEK1/2-ERK1/2 signaling inhibits HIV-1 replication by altering viral RNA processing 2020 , 16, e1008307		
4	An activator of G protein-coupled receptor and MEK1/2-ERK1/2 signaling inhibits HIV-1 replication by altering viral RNA processing 2020 , 16, e1008307		
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