

Daniel Schimperli

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.

80
papers

3,874
citations

39
h-index

61
g-index

83
ext. papers

4,041
ext. citations

9.5
avg, IF

4.84
L-index

#	Paper	IF	Citations
80	Translational coupling at an intercistronic boundary of the Escherichia coli galactose operon. <i>Cell</i> , 1982 , 30, 865-71	56.2	211
79	Regulation of histone mRNA in the unperturbed cell cycle: evidence suggesting control at two posttranscriptional steps. <i>Molecular and Cellular Biology</i> , 1991 , 11, 2416-24	4.8	206
78	Unique Sm core structure of U7 snRNPs: assembly by a specialized SMN complex and the role of a new component, Lsm11, in histone RNA processing. <i>Genes and Development</i> , 2003 , 17, 2321-33	12.6	167
77	3' editing of mRNAs: sequence requirements and involvement of a 60-nucleotide RNA in maturation of histone mRNA precursors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 1057-61	11.5	139
76	Regulation of histone mRNA in the unperturbed cell cycle: evidence suggesting control at two posttranscriptional steps. <i>Molecular and Cellular Biology</i> , 1991 , 11, 2416-2424	4.8	134
75	The gene for histone RNA hairpin binding protein is located on human chromosome 4 and encodes a novel type of RNA binding protein. <i>EMBO Journal</i> , 1997 , 16, 769-78	13	130
74	Purified U7 snRNPs lack the Sm proteins D1 and D2 but contain Lsm10, a new 14 kDa Sm D1-like protein. <i>EMBO Journal</i> , 2001 , 20, 5470-9	13	128
73	Multilevel regulation of replication-dependent histone genes. <i>Trends in Genetics</i> , 1988 , 4, 187-91	8.5	123
72	The special Sm core structure of the U7 snRNP: far-reaching significance of a small nuclear ribonucleoprotein. <i>Cellular and Molecular Life Sciences</i> , 2004 , 61, 2560-70	10.3	104
71	Stable alteration of pre-mRNA splicing patterns by modified U7 small nuclear RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 4929-34	11.5	93
70	Affecting gene expression by altering the length and sequence of the 5' leader. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984 , 81, 7698-702	11.5	91
69	Rescue of a severe mouse model for spinal muscular atrophy by U7 snRNA-mediated splicing modulation. <i>Human Molecular Genetics</i> , 2009 , 18, 546-55	5.6	84
68	Structural and functional characterization of mouse U7 small nuclear RNA active in 3' processing of histone pre-mRNA. <i>Molecular and Cellular Biology</i> , 1988 , 8, 1518-24	4.8	82
67	Polydnavirus of the parasitic wasp <i>Chelonus inanitus</i> (Braconidae): characterization, genome organization and time point of replication. <i>Journal of General Virology</i> , 1994 , 75 (Pt 12), 3353-63	4.9	81
66	RNA 3' processing regulates histone mRNA levels in a mammalian cell cycle mutant. A processing factor becomes limiting in G1-arrested cells. <i>EMBO Journal</i> , 1987 , 6, 1721-1726	13	77
65	The expression in yeast of the Escherichia coli galK gene on CYC1::galK fusion plasmids. <i>Gene</i> , 1983 , 25, 249-62	3.8	77
64	RNA 3' processing regulates histone mRNA levels in a mammalian cell cycle mutant. A processing factor becomes limiting in G1-arrested cells. <i>EMBO Journal</i> , 1987 , 6, 1721-6	13	74

63	Structure of the galactokinase gene of Escherichia coli, the last (?) gene of the gal operon. <i>Nucleic Acids Research</i> , 1985 , 13, 1841-53	20.1	71
62	3Uprocessing of pre-mRNA plays a major role in proliferation-dependent regulation of histone gene expression. <i>Nucleic Acids Research</i> , 1988 , 16, 9399-414	20.1	70
61	Spinal muscular atrophy: SMN2 pre-mRNA splicing corrected by a U7 snRNA derivative carrying a splicing enhancer sequence. <i>Molecular Therapy</i> , 2007 , 15, 1479-86	11.7	68
60	The low abundance of U7 snRNA is partly determined by its Sm binding site.. <i>EMBO Journal</i> , 1993 , 12, 1229-1238	13	66
59	Antisense properties of tricyclo-DNA. <i>Nucleic Acids Research</i> , 2002 , 30, 2751-7	20.1	62
58	Assembly, nuclear import and function of U7 snRNPs studied by microinjection of synthetic U7 RNA into Xenopus oocytes. <i>Nucleic Acids Research</i> , 1995 , 23, 3141-51	20.1	59
57	Variable effects of the conserved RNA hairpin element upon 3Uend processing of histone pre-mRNA in vitro. <i>Nucleic Acids Research</i> , 1993 , 21, 1569-75	20.1	59
56	U7 snRNAs induce correction of mutated dystrophin pre-mRNA by exon skipping. <i>Cellular and Molecular Life Sciences</i> , 2003 , 60, 557-66	10.3	55
55	The stem-loop binding protein stimulates histone translation at an early step in the initiation pathway. <i>Rna</i> , 2005 , 11, 1030-42	5.8	55
54	Efficient expression of Escherichia coli galactokinase gene in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982 , 79, 257-61	11.5	55
53	Structural and functional characterization of mouse U7 small nuclear RNA active in 3Uprocessing of histone pre-mRNA. <i>Molecular and Cellular Biology</i> , 1988 , 8, 1518-1524	4.8	53
52	Mammalian pre-mRNA 3Uend processing factor CF I m 68 functions in mRNA export. <i>Molecular Biology of the Cell</i> , 2009 , 20, 5211-23	3.5	48
51	Double-target antisense U7 snRNAs promote efficient skipping of an aberrant exon in three human beta-thalassemic mutations. <i>Human Molecular Genetics</i> , 1999 , 8, 2415-23	5.6	48
50	The low abundance of U7 snRNA is partly determined by its Sm binding site. <i>EMBO Journal</i> , 1993 , 12, 1229-38	13	48
49	The U7 snRNP and the hairpin binding protein: Key players in histone mRNA metabolism. <i>Seminars in Cell and Developmental Biology</i> , 1997 , 8, 567-76	7.5	46
48	Interactions of CstF-64, CstF-77, and symplekin: implications on localisation and function. <i>Molecular Biology of the Cell</i> , 2011 , 22, 91-104	3.5	44
47	The C-terminal domain of coilin interacts with Sm proteins and U snRNPs. <i>Chromosoma</i> , 2005 , 114, 155-66.8		43
46	Inhibition of HIV-1 multiplication by antisense U7 snRNAs and siRNAs targeting cyclophilin A. <i>Nucleic Acids Research</i> , 2004 , 32, 3752-9	20.1	42

45	Biochemical demonstration of complex formation of histone pre-mRNA with U7 small nuclear ribonucleoprotein and hairpin binding factors. <i>EMBO Journal</i> , 1992 , 11, 691-7	13	42
44	3' end processing of mouse histone pre-mRNA: evidence for additional base-pairing between U7 snRNA and pre-mRNA. <i>Nucleic Acids Research</i> , 1994 , 22, 4023-30	20.1	41
43	Differential activation of the mouse beta-globin promoter by enhancers. <i>Molecular and Cellular Biology</i> , 1983 , 3, 1246-54	4.8	39
42	The <i>Caenorhabditis elegans</i> histone hairpin-binding protein is required for core histone gene expression and is essential for embryonic and postembryonic cell division. <i>Journal of Cell Science</i> , 2002 , 115, 857-66	5.3	39
41	Ultrastructural changes in diaphragm neuromuscular junctions in a severe mouse model for Spinal Muscular Atrophy and their prevention by bifunctional U7 snRNA correcting SMN2 splicing. <i>Neuromuscular Disorders</i> , 2010 , 20, 744-52	2.9	38
40	Cycling in the nucleus: regulation of RNA 3' processing and nuclear organization of replication-dependent histone genes. <i>Current Opinion in Cell Biology</i> , 2016 , 40, 23-31	9	36
39	Nucleotide sequence of two mouse histone H4 genes. <i>Nucleic Acids Research</i> , 1989 , 17, 795	20.1	35
38	Structure of the histone mRNA hairpin required for cell cycle regulation of histone gene expression. <i>Rna</i> , 2002 , 8, 29-46	5.8	34
37	Toward an assembly line for U7 snRNPs: interactions of U7-specific Lsm proteins with PRMT5 and SMN complexes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34435-40	5.4	31
36	Synthesis and cellular activity of stereochemically-pure 2'-O-(2-methoxyethyl)-phosphorothioate oligonucleotides. <i>Chemical Communications</i> , 2017 , 53, 541-544	5.8	29
35	Sensitivity of splice sites to antisense oligonucleotides in vivo. <i>Rna</i> , 1999 , 5, 369-77	5.8	29
34	CstF64: cell cycle regulation and functional role in 3' end processing of replication-dependent histone mRNAs. <i>Molecular and Cellular Biology</i> , 2014 , 34, 4272-84	4.8	28
33	A 5' 3' exonuclease activity involved in forming the 3' products of histone pre-mRNA processing in vitro. <i>Rna</i> , 1998 , 4, 1034-46	5.8	28
32	Repair of pre-mRNA splicing: prospects for a therapy for spinal muscular atrophy. <i>RNA Biology</i> , 2010 , 7, 430-40	4.8	27
31	Inhibition of HIV-1 multiplication by a modified U7 snRNA inducing Tat and Rev exon skipping. <i>Journal of Gene Medicine</i> , 2007 , 9, 323-34	3.5	26
30	Positive and negative mutant selection in the human histone hairpin-binding protein using the yeast three-hybrid system. <i>Nucleic Acids Research</i> , 2000 , 28, 1594-603	20.1	26
29	U7 snRNP-specific Lsm11 protein: dual binding contacts with the 100 kDa zinc finger processing factor (ZFP100) and a ZFP100-independent function in histone RNA 3' end processing. <i>Nucleic Acids Research</i> , 2005 , 33, 2106-17	20.1	25
28	Differential activation of the mouse beta-globin promoter by enhancers. <i>Molecular and Cellular Biology</i> , 1983 , 3, 1246-1254	4.8	25

27	Isolation of an active gene and of two pseudogenes for mouse U7 small nuclear RNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1991 , 1088, 151-4		24
26	FUS/TLS contributes to replication-dependent histone gene expression by interaction with U7 snRNPs and histone-specific transcription factors. <i>Nucleic Acids Research</i> , 2015 , 43, 9711-28	20.1	22
25	Evolutionary conservation of the U7 small nuclear ribonucleoprotein in <i>Drosophila melanogaster</i> . <i>Rna</i> , 2003 , 9, 1532-41	5.8	22
24	Functional importance of conserved nucleotides at the histone RNA 3Uprocessing site. <i>Rna</i> , 1998 , 4, 246-56	5.8	20
23	Splicing changes in SMA mouse motoneurons and SMN-depleted neuroblastoma cells: evidence for involvement of splicing regulatory proteins. <i>RNA Biology</i> , 2014 , 11, 1430-46	4.8	19
22	The 68 kDa subunit of mammalian cleavage factor I interacts with the U7 small nuclear ribonucleoprotein and participates in 3Uend processing of animal histone mRNAs. <i>Nucleic Acids Research</i> , 2010 , 38, 7637-50	20.1	18
21	Specificities of <i>Caenorhabditis elegans</i> and human hairpin binding proteins for the first nucleotide in the histone mRNA hairpin loop. <i>Rna</i> , 2000 , 6, 1539-50	5.8	17
20	Development and characterization of a triple combination gene therapy vector inhibiting HIV-1 multiplication. <i>Journal of Gene Medicine</i> , 2008 , 10, 1059-70	3.5	16
19	Doxycycline-controlled splicing modulation by regulated antisense U7 snRNA expression cassettes. <i>Gene Therapy</i> , 2009 , 16, 70-7	4	15
18	mRNA 3Uend processing and more--multiple functions of mammalian cleavage factor I-68. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011 , 2, 79-91	9.3	14
17	Somatic Therapy of a Mouse SMA Model with a U7 snRNA Gene Correcting SMN2 Splicing. <i>Molecular Therapy</i> , 2016 , 24, 1797-1805	11.7	14
16	Spinal muscular atrophy: position and functional importance of the branch site preceding SMN exon 7. <i>RNA Biology</i> , 2007 , 4, 34-7	4.8	13
15	A synthetic histone pre-mRNA-U7 small nuclear RNA chimera undergoing cis cleavage in the cytoplasm of <i>Xenopus</i> oocytes. <i>Nucleic Acids Research</i> , 1995 , 23, 3152-60	20.1	12
14	RNAs and ribonucleoproteins in recognition and catalysis. <i>FEBS Journal</i> , 1994 , 219, 25-42		12
13	Delivery of oligonucleotides to bone marrow to modulate ferrochelatase splicing in a mouse model of erythropoietic protoporphyria. <i>Nucleic Acids Research</i> , 2020 , 48, 4658-4671	20.1	11
12	Central and peripheral defects in motor units of the diaphragm of spinal muscular atrophy mice. <i>Molecular and Cellular Neurosciences</i> , 2016 , 70, 30-41	4.8	11
11	Antisense derivatives of U7 and other small nuclear RNAs as tools to modify pre-mRNA splicing patterns. <i>Gene Therapy and Regulation</i> , 2004 , 2, 321-349		10
10	Modeling the ferrochelatase c.315-48C modifier mutation for erythropoietic protoporphyria (EPP) in mice. <i>DMM Disease Models and Mechanisms</i> , 2017 , 10, 225-233	4.1	8

9	Histone H4 mRNA from the nematode <i>Ascaris lumbricoides</i> is cis-spliced and polyadenylated. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1997 , 1350, 259-61		7
8	Isolation of neuronal nuclei from rat brain cortex, rat cerebellum, and pigeon forebrain. <i>Methods in Cell Biology</i> , 1977 , 15, 89-96	1.8	7
7	The craniosacral progression of muscle development influences the emergence of neuromuscular junction alterations in a severe murine model for spinal muscular atrophy. <i>Neuropathology and Applied Neurobiology</i> , 2014 , 40, 416-34	5.2	4
6	Antisense genes to induce exon inclusion. <i>Methods in Molecular Biology</i> , 2012 , 867, 325-47	1.4	4
5	Repurposing of glycine transport inhibitors for the treatment of erythropoietic protoporphyria. <i>Cell Chemical Biology</i> , 2021 , 28, 1221-1234.e6	8.2	2
4	Antisense Derivatives of U7 Small Nuclear RNA as Modulators of Pre-mRNA Splicing 2012 , 481-494		1
3	Positive cofactor 4 (PC4) contributes to the regulation of replication-dependent canonical histone gene expression. <i>BMC Molecular Biology</i> , 2018 , 19, 9	4.5	0
2	Rudolf Weber (1922-2015): a driving force in the transition of developmental biology into a molecular and cellular science. <i>Development Genes and Evolution</i> , 2016 , 226, 65-7	1.8	
1	Transcriptional and Post-Transcriptional Control of Histone Gene Expression 1985 , 171-176		